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# Climatological Data

## HAWAII AND PACIFIC

### TEMPERATURE AND PRECIPITATION EXTREMES

HAWAIIAN STATIONS ONLY

HIGHEST TEMPERATURE:	PUUKOHOLA HEIAU 98.1	HAWAII	91	DATE	31
LOWEST TEMPERATURE:	MAUNA LOA SLOPE 08S	HAWAII	31	DATE	22
GREATEST TOTAL PRECIPITATION:	KANALOHULUHULU 107S	HAWAII	7.22		
LEAST TOTAL PRECIPITATION:	11 STATIONS		.00		
GREATEST 1 DAY PRECIPITATION:	PRINCEVILLE RANCH 1117 KAUAI		3.77	DATE	19

### SUPPLEMENTAL DATA

	WIND (SPEED - M.P.H.)						RELATIVE HUMIDITY AVERAGES- PERCENT				NUMBER OF DAYS WITH PRECIPITATION							PERCENT OF POSSIBLE SUNSHINE	AVERAGE (TENTHS) SKY COVER SUNRISE TO SUNSET
	RESULTANT DIRECTION	RESULTANT SPEED	AVERAGE	FASTEST MILE	DIRECTION OF FASTEST MILE	DATE OF FASTEST MILE	STANDARD OF TIME				TRACE	.01-.09	.10-.49	.50-.99	1.00-1.99	2.00 AND OVER	TOTAL		
							GREENWICH CIVIL												
							12	18	00	06									
GUAM WSMO	-	-	-	26	E	09	-	77	74	86	1	7	9	0	1	0	18	72	7.8
HILO WSO 87 AP	16	3.7	7.9	23	SE	16+	76	68	53	76	5	3	3	1	0	0	12	68	3.5
HONOLULU WSO 703 AP	19	3.6	8.3	23	S	16	81	81	60	72	4	8	2	0	0	0	14	61	4.9
JOHNSTON WSO AP	9	9.5	13.0	36	E	01	77	76	69	74	7	10	0	0	0	0	17	80	4.1
KAHULUI WSO 398 AP	13	1.8	7.7	25	S	31+	81	82	60	73	2	3	0	0	0	0	5	80	3.1
KOROR WSO	7	7.2	8.8	19	SE	20+	86	-	78	73	2	6	4	4	1	0	17	60	8.5
KWAJALEIN MISSILE RGN	6	15.3	15.6	25++	4	26	77	77	66	73	13	6	1	0	0	0	20	-	8.7
LIHUE WSO 1020.1 AP	20	4.2	9.4	23	SW	31	84	83	66	81	2	10	4	2	0	0	18	61	5.4
MAJURO WSO AP	6	12.9	13.4	25	E	28	80	82	74	78	6	6	1	1	1	0	15	62	9.2
PAGO PAGO WSO AP	7	4.8	8.9	38	E	29	87	87	71	78	2	9	5	2	3	0	21	46	7.5
PONAPE WSO	-	-	-	26	NE	09	79	-	73	75	6	10	8	1	1	0	26	37	8.9
TRUK.MOEN I. WSO AP	6	11.9	12.7	29	NE	01	79	-	74	75	5	11	3	0	0	2	21	32	9.7
WAKE WSO AP	3	7.3	13.0	30	NE	26	80	81	70	72	6	5	3	0	0	0	14	71	4.9
YAP WSO AP	8	9.5	9.9	21	SE	20	83	-	76	75	3	8	4	0	1	0	18	72	8.5

MAY 17 1977

SCI., TECH. & AGR. DIV.

I CERTIFY THAT THIS IS AN OFFICIAL PUBLICATION OF THE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION AND IS COMPILED FROM RECORDS ON FILE AT THE NATIONAL CLIMATIC CENTER, ASHEVILLE, NORTH CAROLINA 28801.

*Daniel B. Mitchell*

DIRECTOR  
NATIONAL CLIMATIC CENTER

**noaa**

NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION / ENVIRONMENTAL DATA SERVICE / NATIONAL CLIMATIC CENTER ASHEVILLE, N.C.

## MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

HAWAII AND PACIFIC  
JANUARY 1977

STATION		TEMPERATURE										PRECIPITATION												
		AVERAGE RAINFALL	AVERAGE MINIMUM	AVERAGE	DEPARTURE FROM NORMAL	HIGHEST	DATE	LOWEST	DATE	DEGREE DAYS	NO. OF DAYS				TOTAL	DEPARTURE FROM NORMAL	GREATEST DAY	DATE	SNOW. SLEET		NO. OF DAYS			
											MAX.	MIN.	TOTAL	DEPT.					DATE	1.00 OR MORE	.50 OR MORE	.10 OR MORE		
																							80° OR ABOVE	32° OR BELOW
HAWAII																								
ISLAND OF KAUAI																								
ANAHOLA 1114	A													3.21		.90	25		0			1	0	0
KANALOHULU 1075		63.4	48.8	56.1		66	25	37	22					7.22		1.57	28		0		14	4	1	0
KAPAA STABLES 1104	A													3.00		.82	25		0			2	0	0
KILAUEA POINT 1133		80.9M	68.2M	74.6M		87	7	65	21+					3.88		.89	7		0		9	2	0	0
KOLOA 936	A													3.82		.80	25		0			2	0	0
LIMUE W50 1020.1 AP	//R	79.2	66.7	73.0	1.8	82	10+	61	28					2.92	- 3.32	.83	25		0		6	2	0	0
MANA 1026		81.8	64.5	73.2	2.5	85	27+	52	31					2.43	- 2.51	.54	20		0		8	1	0	0
N. WAILUA DITCH 1051	A													6.97					0					
PH. WAINIHA 1115														4.09	- 8.92	.90	25		0			4	0	0
PUEHU RIDGE 1040														3.90	- 2.73	.79	12		0		10	2	0	0
WAIHAWA 930	A													2.88	- 2.92	.46	25		0			0	0	0
WAIHAI LOWER 1054		76.6	60.3	68.5		80	9	54	30+					4.41	- 6.17	.72	25		0		10	4	0	0
WAIHEA 947														2.48	- 2.10	.45	28		0		9	0	0	0
ISLAND				69.1										3.94					0					
ISLAND OF OAHU																								
ALOHA STADIUM-HALAWA	M		M	M		83	18+	59	24					.24		.08	28		0		0	0	0	0
8 Y U LAIE 903.1		82.0	62.5	72.3		86	11	60	27+					1.13		.30	2		0		6	0	0	0
HONOLULU OBSERV 702.2														.56		.17	12		0		2	0	0	0
HONOLULU W50 703 AP	R	81.7	65.7	73.7	1.4	83	29+	59	22					.52	- 3.88	.12	27		0		2	0	0	0
KANEHE MAUKA 781		79.4	67.7	73.6	2.5	83	14	63	14					1.45	- 6.44	.37	25		0		5	0	0	0
KOOLAUPU DAM 833	A													1.74		.36	2		0		7	0	0	0
MANOA LYON ARBORETUM		79.9	62.8	71.4		83	19	59	5					2.31		.69	25		0		6	1	0	0
NUUANU RES 4 783														2.36		.66	2		0		8	2	0	0
OPAEULA 870	A		M	M	M									1.14		.40	28		0			0	0	0
PALOLO VALLEY 718	R					84	13	60	21					2.88	- 7.97	1.26	25		0		7	1	1	1
WAIHAWA DAM 863	A													1.17		.50	28		0			1	0	0
WAIHOLE 837	A													3.60		.30			0					
WAILALEE 896.3		79.5M	65.1M	72.3M		85	11	60	20					1.75		.68	2		0					
WAILUA 847	A	81.4	60.1	70.8	.7	86	28+	55	30+					1.25	- 3.74	.64	28		0		5	1	0	0
WAIKIKI 717.2		82.6	65.4	74.0		85	5	60	22+					.76		.21	9		0		4	0	0	0
WAIMANALO EXP FARM		79.7	65.2	72.5		84	7	60	23					2.49		.54	21		0		8	1	0	0
WAIPIAHU 750	A													.60					0			0	0	0
ISLAND				72.6										1.53					0					
ISLAND OF MOLOKAI																								
KUALAPUU 534	A													.99		.55	21		0		2	1	0	0
MAUNALO 511	A													.58		.24	28		0		3	0	0	0
MOLOKAI AP 524		81.8	63.5	72.7		85	12+	58	24+					.76		.32	28		0		4	0	0	0
ISLAND				72.7										.78					0					
ISLAND OF LANAI																								
LANAI CITY 672	A		M	M	M	79	12	59	20					1.43	- 4.51	.46	21		0			0	0	0
ISLAND														1.43					0					
ISLAND OF MAUI																								
HALEAKALA B E S 434	A													.97		.45	29		0		3	0	0	0
HALEAKALA RS 338		64.4	41.0	52.7	1.7	70	16	36	21					.20	- 8.03	.17	21		0		1	0	0	0
HANA AIRPORT 355	A													1.47					0					
HONOKAHUA 493																			0					
KAAHAPALI AP 453.1																			0					
KAHULUI W50 398 AP	R	81.3	62.1	71.7	.0	88	11	57	24					.12	- 3.47	.07	4		0		0	0	0	0
KAILUA 446	M		M	M		80	18+	59	27					1.06	- 8.05				0					
KEANAE 346	A													1.10		.79			0					
KIPAHULU 258														.79	- 8.63	.66	19		0		2	1	0	0
KULA SANATORIUM 267		70.7	55.2	63.0	1.5	77	12	52	23+					.39	- 5.25	.20	21		0		1	0	0	0
LAHAINA 361		83.2	63.9	73.6	2.1	85	16+	60	23+					.49	- 3.21	.23	21		0					
PAIA 406														.85	- 3.16	.47	21		0		2	0	0	0
WAILUKU 386	A		M	M	M	86	11	59	25+					1.00	- 3.88	.82	21		0		2	1	0	0
ISLAND				65.3										.77					0					
ISLAND OF HAWAII																								
HAWAII VOLCNS NP HD 54		68.1	47.8	58.0	.1	72	15+	36	23					1.89	- 8.72	.42	5		0		6	0	0	0
HILO W50 87 AP	R	84.8	63.0	73.9	2.7	90	27	57	24					1.22	- 7.85	.60	29		0		4	1	0	0
HUEHUE 92.1																			0					
KAINALU 73.2		76.2	55.6	65.9		80	11	52	24					.35	- 3.72	.16	21		0			0	0	0
KAPOHO BEACH 93.11														.90		.23	5		0		4	0	0	0
KEAAU 92		81.4	61.1	71.3		88	28	56	24					1.61		.35	2		0		7	0	0	0

SEE REFERENCE NOTES FOLLOWING STATION INDEX



# MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

HAWAII AND PACIFIC  
JANUARY 1977

STATION		TEMPERATURE										PRECIPITATION																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
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SEE REFERENCE NOTES FOLLOWING STATION INDEX

## MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

ALASKA  
JANUARY 1977

STATION		TEMPERATURE											PRECIPITATION																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
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SEE REFERENCE NOTES FOLLOWING STATION INDEX



# DAILY PRECIPITATION

HAWAII AND PACIFIC  
JANUARY 1977

STATION	TOTAL	DAY OF MONTH																																
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
HAWAII																																		
ISLAND OF KAUAI																																		
ANAHOLA 1114	A	3.21	x	x	x	x	.20	.03	.40	x	x	.05	.00	.03	.20	.30	x	x	.03	.40	.20	.10					.90	.10	.27	x	x	.03		
BOYDESBORO STA 005	A	4.04	x	x	x	x	.71	.82	x	x	x	.08	.03	.60	.15	.01	x	x	.13	.01	.01	.14					.42	.15	.02	.72	x	x	.03	
EAST LAKE 034	A	3.54	x	x	x	x	.21	.06	.55	x	x	.07	.15	.40	.25	.01	x	x	.06		.02						.71	.40	.01	.61	x	x	.04	
ELEETE 927	A	2.88	x	x	x	x	.32	.07	.10	x	x	.14	.04	.58	.20		x	x	.10	.04	.21							.35	.09	.58	x	x	.05	
HALAULA 1110	A	3.05	x	x	x	x	.09	.02	.50	x	x	.20		.18		.05	x	x	.03	.08	.20	.05					1.10	.15	.20	x	x	.04		
HALENAHANA 1000	A	5.12	x	x	x	x	.44	.32	.37	x	x	.07	.03	.68	.03	.05	x	x	.15	.03	.02						1.88	.51	.28	x	x	.18		
HUKIPO 045	A	2.87	x	x	x	.05			.06			.28	.03	.50	.30			.08			.35	.20				.10	.27	.05	.52			.24		
ILILILUA INTAKE 1050	A	6.98	x	x	x	x	1.23	.07	.61	x	x	.28	.05	.65	.12	.23	x	x	.36	.04	.16	.02	.02	x	x	.21	.86	.88	.03	.31	x	x		
INTAKE MAINLINE PC 1086	A	3.68	x	x	x	x	.23	x	.73	x	x	.12	x	x	x	.13	x	x	x	x	x	1.83					.57	x	x	x	x	x		
KALAHOUHULU 1075	A	7.22		.03	.12	.05	.04	.13	.03	.02	.48	.48	.85	.51				.06	.31	.45	.83	.04			.02	.20	.15	.07	1.57	.02	.17	.49		
KANEHA RESERVOIR 1002	A	7.03	x	x	x	x	.13		1.07	x	x	.05	.05	.70	.40	x	x	.05		.65	.30	.85			.03	1.30	.85	.05	.30	x	x	.06		
KAPPA STABLES 1104	A	3.00	x	x	x	x	.15	.02	.68	x	x	.05	.05	.08	.02	.04	x	x	.02	.02	.35	.01	.12			.80	.10	.01	.25	x	x	.02		
KELU 1112	A	2.96	x	x	x	x	.01	.03	.52	x	x	.20			.28	.05	x	x	.03		.20	.20	.05											
KEKONA 044	A	3.06	x	x	x	.04			.01	x	x	.18	.11	.41	.28			.04		.48	.54					.07	.12	.04	.47			.02		
KILAUEA 1134	A	4.03	x	.36	x	x	x	x	.78	x	x	x	x	.12	.36	x	x	x	x	.44	.70	.29	.10	x	x	.25	.32	.11	.03	x	x	.16		
KILAUEA POINT 1133	A	3.88	.02	.13	.01				.89	.37			.05	.11	.31					.61	.65	.19					.43	.07	.04			.08		
KILO 1033	A	2.35							.03			.07	.42	.08	.37			.05		.16	.25	.25					.13	.03	.02	.40				
KILOA 930	A	3.82	x	x	x	x	.28	.03	.71	x	x	.10	.21	.36	.26	.01	x	x	.19	.10	.01	.08												
KILOA LN (HWA) 040.1	A	2.57	x	x	x	.36			.65	.02	.13	.02	.12	.14	.14	x	x	x	.22								1.02	x	.28	x	x	x		
KILOA MAUKA 004	A	3.94	x	x	x	x	.90		x	x	x	.74	x	.70	x	x	x	x																
KUKUIULA 035	A	2.91	x	x	x	x	.52	.06	.85	x	x	.04	.12	.28	.11	x	x	x	.02	.02	.01						.50	.09	.26	x	x	.03		
LIHUE VARIETY ST 10621	A	3.71	x	x	x	x	.13	.08	.40	x	x	.30	.02	.03	x	x	x	.11	.03	.07	.03	x	x	.04	1.25	.66	.46	x	x	x	x	.08		
LIHUE 1020	A	3.86	x	x	x	x	.08	.11	.62	x	x	.06	.01	.24	.01	.02	x	x	.28	.05				x	x	.03	1.83	.20	.01	.12	x	x	.18	
LIHUE WSB 1020.1 AP	A	2.82	.06	.02			.24		.01			.04	.38	.01	.01	T	.34	.03	.01								.67	.42	.11	.51			.02	
MAHAHELI 065	A	2.46			.10		.11		.12			.05	.01	.36	.24		.01		.17	.23														
MANA 1020	A	2.43					.13	.02	.02			.02	.28	.20	.28		.04		.01	.54	.04				.02	.20	.07	.37				.17		
MDHWHI UPR C0055 1083	A	5.48	x	.17			.17		.08	.33	.33	.66	.33				.25	.08	.08	.33	.33				.25	.17								
MDHWHI 1145	A	3.64	x	x	.15	x	x	.43	x	x	x				x	1.43	.08					.43						.61	x	.14	x	x		
MOUNT MALEALELE 1047	A	2.95																																
NIU WIDGE 1035	A	2.95					.28		.03	x	x	.22	.21	.42	.32				.21	x							.53	.08		.65				
N WAILUA DITCH 1051	A	6.97	x	x	x	x	1.53	.02	.58	x	x	.22	.08	.58	.10	.45	x	x	.20	.02	.41	.05	.02	x	x	.18	1.00	.76	.03	.51	x	x	.20	
PA WAINIHA 1115	A	4.00	x	x	x	x	.18		.68	x	x	.15			.10	.18				.76	.52	.21					.80	T						
PRINCEVILLE RANCH 1117	A	4.78	x	x	x	x			3.90											3.77	.08	.05												
PUHIA RIDGE 1040	A	3.31	x	.05	.04		.22	.12	.87	x	x	.18	.34	.25	.11	x	x	.34	.05	T						.14	.20	.23	.04	.78			.09	
PUIHI 1013	A	3.31	x	x	x	x	.22	.12	.87	x	x	.18	.34	.25	.11	x	x	.34	.05	T							.14	.20	.23	.04	.78			.09
WAILIHA 030	A	2.88	x	x	x	x	.45	.16	.26	x	x	.07	.01	.43	.22	T	x	x	.03	.02	.12					.46	.20		.45			T		
WAIKANI LOWER 1054	A	4.41	.19	.28	.09	.07			.10	.71	.01	.16	.01	.56	.02	.07	.04		.06	.05	.01	.08	.03	.01	.01	.14	.72	.68	.01	.14	.01	.05	.09	
WAIKANI UPPER 1052	A	4.93	.20	.42	.32	.08	.02	.13	.53	.02		.15	.03	.58	.06	.20	.07		.12	.05	.02	.04	.02	.01	.02	.16	.65	.59	.04	.23	.02	.06	.03	
WAILIHA 043	A	2.15				x	.08	.03	.03			.25	.06	.33	.32				.16	.04	.08	.03												
WAILUA KAI 1065	A	3.63	x	x	x	x	.08		.56	x	x	.31	.16	.03	.05	x	x	.16	.04	.08	.03													
WAIKANE 047	A	2.48					.12					.23	.40	.38				.12		.32	.18					.04								
WEST LAKE 031	A	3.69	x	x	x	x	.56	.12	1.02	x	x	.08	.06	.34	.15	T	x	x	.05		.02	.04					.56	.18	.02	.42	x	x	.04	
ISLAND OF MAUI																																		
ALONA STATION-HAWAII	A	.24	x	x	.02				T	x	x	.05	T	.02	x	x	x	.03			.04				T								T	
BOETANIA PUMPING STA	A	.85	T	.30	.20				T	T	x	x	.20		.11	T		.02			.10	T				.03								
B Y U LAKE 003.1	A	1.13	T	.01					T	T	x	x	.20	.33	.05		x	x	.02		.15	.07			T		.21							
CAMPBELL IND PK 702.5	A	1.36	x	x	x	.05	x	x	x	x	x	.12	x	.10	.05	x	x	.01	x	x	x	x	x	x	.15	x	x	.04	.03	.24	x	x	.03	
CAMP 04 807	A	.78	x	x	x	.05	x	x	x	x	x	.12	x	.10	.05	x	x	.01	x	x	x	x	x	x	.15	x	x	.04	.03	.24	x	x	.03	
COCONUT ISLAND 040.1	V	.74	x	x	.05		.12		.08	x	x	.05	.05	.13	x	x	.02				.08					.08								
EUH PLANTATION 741	A	.82	x	x	x		.12		.08	x	x	.05	.05	.13	x	x	.02				.08					.08								
NELEMAN INTAKE 001	A	.62	x	x	x	.02	x	x	x	x	x	.05	T	.03	.17	.05	T	x	x	x	x	x	x	.14	x	x	.06					.03		
NOMULU OBSERV 702.2	A	.56		.01					.11	.02	T	.03	.17	.05	T	.05	T	x	x	x	x	x	x	.14	x	x	.06					.03		
NOMULU WSB 703 AP	A	.52		.05					.11	.02	T	.03	.17	.05	T	.05	T	x	x	x	x	x	x	.14	x	x	.06					.03		
KAENA POINT 041.3	A	3.39							x	x	x	.10	x	x	x	x	x	x	.36	x	x	x	x	x	.08	x	x	x	x	x	x	1.50		
KAHANA 003	A	.62				.12			.07																									

HAWAII AND PACIFIC  
JANUARY 1977

SEE REFERENCE NOTES FOLLOWING STATION INDEX

# DAILY PRECIPITATION

HAWAII AND PACIFIC  
JANUARY 1977

STATION	TOTAL	DAY OF MONTH																															
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
HAWAII																																	
KUKUIHALE NIC 198	A	3.67			.02															.01	.34									2.65	.65		
KUKUIHALE MILL 206	A	3.18			.02															.03	.50		x	x	.21					x	x	2.40	
KULANI CAMP 78		.50	.05	.18	.02	.07																								.05	.13		
KULANI MAUKA 78	A	.00																															
KULANI SCHOOL SITE 78	A	1.25	.80	x	x	x	x	x	.25								x	x	x	x	x	x	x	x	x	x	x	x	x	x	.10		
LANIHUA 88.2		.43																															
MAKAHOU 103		.00																															
MAUKA 2	A	.80			.15																	.45											
MAUNA KEA 885 111.2		-			-	-																											
MAUNA LOA SLOPE 885		.00																															
MIDDLE MAWALOA 68.1	A	.11	x	x	x	x	x	x	x	x	.02								x	x	x	x	x	x	.11								
MIDDLE PEN 147.1	A	.02	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	.20	x	x	x	x	x	x	x	x	x	x	.12		
MOAUA 16	A	.32	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	.06	.09	.01								.34	.22		
MOUNTAIN VIEW 91	A	1.85	.24	.36	.08	.35				.07	.01									.01													
MALEHUA 14	A	.80				.06				.60	.03									T												.05	
NAPAHU 28	A	.40																		x	x	x	x	x	.40								
NAKALA 223	A	1.54	T	T		.12	.01	T														.19	.09							.02	.02	.21	T
OPINIHOLE 2 24.1	A	.26																			.21	.03											
POHIO LAND EST 91.5	A	2.13	x	x	x	x	x	1.24	x	x	x	x	x	x	.80	x	x	x	x	x	x	.09											
PAHAHUA 217		5.18			.04			.18													.01	1.00											
PAHAHUA 221	A	2.03			.01	.01																											
PAHAHUA 21	A	.83			.07			.15																									
PAHAHUA 65	A	2.35	.16	.22	.06	.25	.05	.45	.28		.01									.08	.07												
PAHAHUA 37	A	15.06	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	15.00	x	x	x	x	x	.06	
PAPAIAHU 144.1	A	1.56	.10	x	x	x	.63	x	x	x	.03										.04	.01	.01									.74	
PAPAIAHU MAUKA 140.1	A	2.83	.08	x	x	x	.75	x	x	x	.11									.01	.11	.02										1.55	
PIHONUA 89	A	1.17	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	1.17	
POHAKULA 107	A	.00																															
POHAKULA MEIAU 98.1	A	.02	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	.02	
PUU LEHUA 73	A	.02	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x		
PUU MAHUA 94.1	A	.21									.09																						
SADDLE ROAD 1 84	A	1.66	x	x	x	x	x	1.23	x	x	x	x	x	.03	x	x	x	x	x	x	.40												
SOUTH KAMA 2.31	A	.17								.05																							
SOUTH POINT CORDAL 3	A	.70	x	x	x	x	x	.25	x	x	x	x	x	x	x	x	x	x	x	x	x	.46											
UPOLU POINT USCO 159.2	A	.75	T	.03						.02																	T			.05	.58	T	
WAIKAKA SCO 88.2	A	2.13	.53	.19	.02	.17		.08													.06	.20		T						.49	.38		
WAIKAKA-BOIS CAS 95.8	A	.87						x	x	.83							.01					T	.01							x	x		.02

SEE REFERENCE NOTES FOLLOWING STATION INDEX

# DAILY PRECIPITATION

HAWAII AND PACIFIC  
JANUARY 1977

STATION	TOTAL	DAY OF MONTH																														
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
PACIFIC																																
EAST OF 180TH MERIDIAN																																
CANTON ISLAND	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FAGA ALU RESERVDIR	13.12	-	.04	.01	.15	.67	.48	.96	-	.43	.52	-	-	.05	.23	T	.08	.40	1.24	.62	.75	.23	.47	.32	.06	.03	1.05	2.00	1.45	.29	.58	-
FALERSRD VILLAGE	.47	.01	.07	.08	.08	T	01	.04	.43	T	.07	T	.07	.63	.01	.01	.05	.48	.27	.15	.70	1.56	.04	.02	.02	.04	.02	.12	.24	1.70	.19	-
LEONE	9.75	.91	.03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FRENCH FRIGATE SHOALS	3.50	.01	-	.24	.02	.10	.03	.07	.35	.09	.06	.01	.01	.58	.12	.18	.16	T	.03	.15	.82	1.86	.08	.15	.17	.12	.44	.35	1.41	.68	.03	.73
MIDWAY SAND ISLAND	8.67	T	.17	.02	.29	T	.03	.12	.10	.51	.09	.46	.01	.01	.58	.12	.18	.16	T	.03	.15	.82	1.86	.08	.15	.17	.12	.35	1.41	.68	.03	.73
PAGO PAGO WSO AP	7.28	.02	.01	-	.04	-	.01	-	.21	-	-	-	.01	-	-	T	.02	.75	.03	1.13	.08	T	.15	.30	-	.07	1.97	.01	.28	1.06	.34	-
SWAINS ISLAND	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
WESTERN PACIFIC ISL. NORTH OF 12 N																																
ANDERSEN AFB GUAM	3.54	.05	.07	.07	.25	T	-	.22	.25	T	.35	-	.01	.23	T	T	T	.71	.18	.02	.01	.07	.20	T	T	-	-	-	.05	-	-	
CLARK AFB LUZON	.29	T	-	.02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GUAM NAS	1.82	.06	.01	.15	.07	-	T	.07	.26	.02	T	.18	T	.03	.02	T	.40	.18	.04	.28	.15	.05	.17	.10	.03	.03	.10	.02	.29	-	-	-
GUAM WSO	3.12	.04	.07	.12	.13	.01	-	.08	.24	-	.06	.33	T	.18	.04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MANGILAD	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ROTA	1.71	-	-	-	.29	-	-	-	-	-	.15	-	.14	-	.05	.18	.13	.42	-	-	-	-	.06	.01	-	-	-	-	-	-	.27	-
SAIJAN LOBAN	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
WAKE WSO AP	.43	-	-	-	T	T	T	.02	-	-	T	T	-	-	-	.02	-	-	-	-	-	-	.11	.12	.01	.02	T	.02	-	.11	-	-
CAROLINE AND MARSHALL ISLANDS																																
ANGUAD	6.27	.05	.03	.11	.37	.18	.02	.21	1.03	.42	.22	.18	.03	.05	-	.10	.17	.06	.06	.02	.12	1.12	.07	.32	.19	.11	.05	-	.02	.62	-	
ENIOMETAK	.75	.01	.03	.08	.06	.05	.05	.13	-	-	-	-	.03	.01	.03	-	-	-	-	-	-	.18	.07	-	.19	.07	.19	-	-	-	-	-
FALALOP I. ULITHI	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
KAPINGAMARANGI ATOLL	11.43	.04	.01	.36	1.36	.21	1.00	.18	.10	.60	.20	-	.20	-	-	.01	.01	.16	.01	.01	.16	.65	T	-	.07	.27	.19	.25	5.70	.15	-	-
KOROR WSO	5.18	.04	.01	.01	.08	1.67	.16	.50	.28	.06	.53	-	.20	-	-	.01	.01	.16	.01	.01	.16	.65	T	-	.07	.27	.19	.25	5.70	.15	-	-
KURAJALEIN MISSILE RGN	.48	T	T	.03	.08	T	T	T	T	.32	.01	T	.01	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
LELE I. KUSAE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MAJURO WSO AP	2.38	-	-	-	.04	-	.18	T	.07	.04	.74	.02	.19	T	-	-	-	-	-	-	-	.08	T	-	.03	.05	.03	.32	.23	.04	-	-
METALAMIN	11.19	.02	-	.01	.01	.03	.85	1.87	1.30	.01	.01	.01	.01	.01	1.40	.08	2.85	.01	.35	-	-	-	-	-	-	-	-	-	-	-	-	-
MOKIL ATOLL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NGASANG-BABELTHUAP	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PONAPE WSO	4.45	.01	-	.05	T	-	.10	.18	.24	.31	.09	.07	.01	1.48	.20	.11	.03	T	.37	.02	-	.01	T	.01	T	T	T	T	.78	.01	.36	-
SATAVAN ATOLL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TAKU- MOEN I. WSO AP	6.44	.06	.03	-	.05	T	.06	-	.13	-	.01	-	.01	T	.05	3.35	2.16	.09	-	.07	-	.14	-	-	-	-	-	.01	T	.15	.07	-
WOLEAI ATOLL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
YAP WSO AP	3.84	T	-	.05	.04	.41	.26	.29	.04	.05	T	-	T	.56	-	-	-	-	.01	1.12	.88	-	.01	.03	.16	-	-	-	-	-	.03	-

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# DAILY TEMPERATURES

HAWAII AND PACIFIC  
JANUARY 1977

STATION		DAY OF MONTH																															AVERAGE	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
HAWAII																																		
ISLAND OF KAUAI																																		
KANALOHULUHULU 1075	MAX MIN	61 46	65 50	63 49	65 41	65 42	65 52	63 52	63 49	65 54	62 56	62 50	62 50	64 49	65 44	63 44	60 55	65 56	65 49	60 50	65 56	64 43	64 37	63 45	62 52	66 55	65 53	62 54	64 50	64 38	62 40	62 51	63.4 48.8	
KILAUEA POINT 1133	MAX MIN	84 68	83 69	84 69	82 68	85 68	82 68	87 68	78 66	81 69		86 69	82 65	84 69	74 67	79 66	81 67	85 72	85 67	80 66	77 69	79 65	78 67	78 68	82 70	79 67	79 68	80 70	76 68	76 68	78 70	83 71	80.9 68.2	
KOOLA LN (MAKI) 940.1	MAX MIN																																	
LIHUE WSO 1020.1 AP	MAX MIN	78 72	78 71	79 63	80 62	81 63	81 68	78 68	80 68	82 70	82 71	78 65	81 68	76 64	80 67	81 66	80 71	81 70	80 64	80 68	79 64	79 62	78 63	81 64	76 70	79 69	81 70	76 67	75 61	76 64	80 66	80 70	79.2 66.7	
MANA 1026	MAX MIN	82 60	85 63	82 63	82 64	85 59	84 68	84 67	83 69	82 68	85 71	85 66	81 65	82 64	80 63	82 61	81 63	80 61	84 67	84 66	80 67	79 62	80 61	81 66	82 71	82 64	85 67	85 68	84 63	82 62	70 55	72 52	81.8 64.5	
NIU RIDGE 1035	MAX MIN	82 59	80 60	80 59	81 60	80 59	80 58	81 59	80 57	82 59	80 58	78 57	79 59	78 56	78 55	79 55	79 58	80 59	80 62							80 60	81 60	82 60	78 60		78 52	79.8 58.3		
WAIAMI LOWER 1054	MAX MIN	75 60	75 58	77 56	78 54	79 55	78 62	76 62	79 56	80 56	76 65	79 60	75 66	76 59	75 59	76 59	76 57	79 67	78 59	76 65	77 60	75 64	77 54	75 54	75 67	74 65	77 64	77 65	73 54	77 64	76 54	78 68	76.6 60.3	
ISLAND OF OAHU																																		
ALOHA STADIUM-HALAWA	MAX MIN			82 63	83 61	83 62	83 61	82 66			83 64	83 67	81 69	82 65	82 64		82 64	83 67	82 64	82 63	82 61				80 59	82 65	81 65	82 65	82 65	82 63		81 64		
B Y U LAIE 903.1	MAX MIN	80 68	78 68	80 62	81 62	80 67	81 62	81 66	84 60	83 61	84 60	86 63	85 62	85 63	80 62	81 63	80 61	82 63	85 68	82 67	80 66	79 67	83 60	82 60	83 60	83 67	81 63	84 60	84 63	82 52	81 62	82 63	82.0 62.5	
EWA PLANTATION 741	MAX MIN				85 58	84 60	84 60				82 60	82 65	80 67	82 62	84 60		82 61	83 64	83 60	83 62	82 62				83 57	83 61	81 60	83 61	83 63		82 65			
HONOLULU WSO 703 AP	MAX MIN	83 70	82 66	79 63	82 60	82 65	82 61	81 67	81 63	82 71	82 74	82 68	82 70	80 65	82 63	82 63	82 69	83 70	81 66	81 63	81 62	81 61	81 66	81 59	81 61	82 66	81 69	82 72	82 68	82 62	83 61	82 65	81.7 65.7	
KANEHE MAUKA 781	MAX MIN	75 69	76 70	75 66	79 66	80 67	80 67	80 67	80 66	81 67	80 71	82 69	80 65	78 67	83 68	80 68	82 67	79 68	81 68	82 68	80 67	78 67	79 66	79 65	76 65	80 67	81 69	81 69	78 69	75 67	81 68	79.4 67.7		
MANOA LYON ARBORETUM	MAX MIN	78 67	78 65	75 61	80 60	81 59	80 62	79 62	81 63	81 63	81 68	82 64	82 66	80 62	81 61	82 61	82 62	79 66	82 63	79 65	79 64	77 65	77 60	77 60	81 65	80 60	79 60	80 62	79 64	80 63	80 66	79.9 62.8		
OPAEULA 870	MAX MIN				80 70	81 66	80 68	80 65			82 73	77 65	80 62	84 63			82 65	82 64	82 65	82 60					82 64	80 65	80 64	80 63	80 63	80 63	80 63	80 63		
WAIALEE 896.3	MAX MIN	77 67	77 65	76 68	79 64	78 65	80 67	82 66			81 69	85 66	81 66	82 65	78 65	79 66	82 68	81 65	81 63	81 66	77 66	77 66	77 65	78 65	79 65	80 67	77 64	79 62	82 64	75 68	77 64	84 65	79.5 65.1	
WAIALUA 847	MAX MIN	80 60	78 65	80 57	81 56	80 60	80 60	86 61	79 62	85 60	86 68	85 65	80 62	85 62	80 57	79 62	85 60	83 58	79 62	79 60	85 59	83 58	79 59	78 59	81 58	82 58	84 58	78 59	83 58	85 51	77 55	85 63	81.4 60.1	
WAIKIKI 717.2	MAX MIN	82 69	82 68	82 63	81 60	85 62	83 63	83 64	83 65	81 65	83 72	83 68	84 71	83 64	82 63	82 64	82 67	83 70	83 65	83 62	84 62	82 60	81 60	81 61	82 65	84 69	84 69	83 71	82 62	80 64	84 66	83 70	82.6 65.4	
WAIMANALO EXP FARM	MAX MIN	78 69	78 68	77 64	77 61	80 62	82 63	84 67	83 66	81 67	81 68	80 67	81 69	81 63	81 64	79 66	79 65	81 69	81 64	81 63	81 62	81 63	79 62	78 60	76 64	81 69	81 66	79 70	82 63	78 64	76 65	77 61	79.7 65.2	
ISLAND OF MOLOKAI																																		
MOLOKAI AP 524	MAX MIN	85 66	79 65	80 58	81 69	80 64	80 62	82 62	83 62	83 65	82 65	78 65	85 67	82 65	83 61	83 60	84 62	83 69	83 61	84 59	84 59	84 60	80 65	81 63	82 58	82 67	81 68	82 66	80 64	78 64	80 65	82 61	81.8 63.5	
ISLAND OF LANAI																																		
LANAI AIRPORT 656	MAX MIN	76 59	76 61	76 56	75 58	79 62	76 60	76 56	76 64	75 65	76 66	76 59	75 55	77 59	77 58	75 57	77 64	77 63	78 58	76 57	76 56	73 59	77 59	76 57	78 59	76 60	76 60	76 57	76 62	77 62	76 58	78 65	76.2 59.5	
LANAI CITY 672	MAX MIN				78 60	75 61	78 63	76 69			76 65	77 62	79 61	76 61	76 63		78 65	78 60	76 61	73 59	73 62				75 60	76 64	76 61	73 60	73 63			77 66		
ISLAND OF MAUI																																		
HALEAKALA RS 338	MAX MIN	65 40	60 37	65 37	69 42	64 43	68 44	65 42	62 40	61 42	62 45	65 39	61 42	67 39	60 40	62 45	70 42	66 43	67 40	65 39	63 40	57 36	59 37	66 44	68 44	65 41	65 41	65 45	68 43	68 38	63 38	64 43	64.4 41.0	
HANA AIRPORT 355	MAX MIN																																	
KAAHAPALI AP 453.1	MAX MIN																																	
KAHULUI WSO 398 AP	MAX MIN	82 67	84 64	82 60	81 62	82 63	82 60	83 60	83 60	81 68	83 65	88 60	82 60	82 61	81 59	78 60	83 64	80 61	80 60	80 62	78 64	79 65	80 65	81 65	80 58	81 57	81 57	81 64	81 62	79 68	82 61	83 63	81.3 62.1	
KAILUA 446	MAX MIN				78 62	79 64	79 63				78 62	79 62	79 61	79 61	80 61		79 61	80 63	80 63	77 64	76 60	77 61				76 61	78 67	79 62	77 59	79 68		79 62		
KEAHAKAPU BEACH 260.2	MAX MIN	83 58	84 61	83 60	82 61	79 65	83 64	81 60	82 60	80 69	79 65	80 62	85 61	81 61	80 60	80 62	83 65	82 65	84 60	81 63	81 62	80 64	83 57	83 58	81 62	80 65	83 63	80 66	80 62	79 62	82 62	85 65	81.5 62.6	
KULA SANATORIUM 267	MAX MIN	71 52	70 55	70 52	69 53	70 55	72 54	72 57	70 60	72 61	75 55	75 58	77 57	68 58	71 54	70 57	70 53	76 54	70 56	67 53	68 54				71 52	71 52	69 53	71 55	70 56	68 59	68 56	68 55	70 55	70.7 55.2

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# DAILY TEMPERATURES

HAWAII AND PACIFIC  
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STATION		DAY OF MONTH																															AVERAGE
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
HAWAII																																	
LAHAINA 361	MAX MIN	84 66	82 64	84 62	84 63	85 63	85 62	82 62	83 61	81 65	82 68	85 62	84 62	84 63	84 62	85 70	84 68	83 62	83 63	81 64	83 65	82 60	83 60	83 65	83 66	83 67	83 64	82 66	82 62	84 64	83 68	83.2 63.9	
MAILUKU 386	MAX MIN					81 63		80 62			84 64	86 65	84 62	85 62	84 63		85 62	80 63	79 63	79 61	83 62			79 59	84 59	81 62	83 62	83 66				79 64	
. . .																																	
ISLAND OF HAWAII																																	
HAWAII VOLCNS NP MO 54	MAX MIN	61 48	67 52	62 48	70 48	70 54	68 44	69 44	71 51	62 56	69 52	68 48	70 44	72 49	70 49	72 45	69 52	69 50	70 51	70 49	67 53	61 47	66 46	68 36	69 37	71 41	69 43	70 49	70 45	68 54	65 47	68 51	68.1 47.8
HILO WSO 87 AP	MAX MIN	81 63	80 64	84 64	83 64	85 65	83 63	82 60	84 66	81 64	86 60	83 65	85 61	87 63	86 62	88 62	89 62	88 65	84 68	85 67	87 65	82 65	84 62	86 62	84 57	87 61	86 60	90 61	85 61	81 67	86 61	86 65	84.8 63.0
KAINALIU 73.2	MAX MIN	76 56	77 54	77 54	76 56	77 55	77 56	77 55	76 55	77 58	77 57	80 60	79 56	79 57	75 58	73 54	75 57	78 55	76 58	76 57	73 54	75 55	78 54	77 55	75 52	75 55	74 54	75 56	76 54	73 55	75 58	78 55	76.2 55.6
KAMUELA 192.2	MAX MIN			77 43	74 45	75 45	75 46	75 46			75 44	75 48		76 49	76 49		76 45	76 47			74 48	74 49			73 49	72 45	75 44	74 42				73 47	
KAPOHO BEACH 93.11	MAX MIN																																
KEARU 92	MAX MIN	76 61	78 62	76 62	82 61	81 61	83 61	79 60	80 60	80 65	82 61	83 62	78 62	83 61	82 60	83 61	83 60	85 64	80 65	86 63	85 63	79 61	78 60	82 56	80 58	82 59	83 59	88 60	82 61	76 61	85 61	81.4 61.1	
KEALAKEKUA 2 28.7	MAX MIN	79 57	79 56	79 56	77 58	79 58	79 60	80 58	78 58	80 60	78 58	84 62	81 58	80 59	76 58	77 57	78 62		78 58	79 58	74 58	77 57	77 55	77 55	74 57	77 58	78 59	77 58	75 58	74 61	78 48	77.9 57.8	
KOHALA MISSION 175.1	MAX MIN	73 66	76 65	76 61	80 60	78 63	80 61	78 59	78 60	80 60	80 65	79 64	80 63	79 63	78 60	80 61	79 62	80 62	78 62	77 62	80 64	77 63	75 58	77 58	78 59	78 62	79 61	78 61	71 62	80 64	80 61	78.1 61.7	
KONA (KAILUA) 68.3	MAX MIN			82 66	89 66	82 66	80 66	81 66			83 65	86 68	83 68	81 65			84 67	81 68	83 68	82 68	80 65			82 64	80 65	80 66	81 67	82 66				86 64	
KULANI CAMP 79	MAX MIN	58 47	60 48	52 35	67 37	66 37	69 39	65 39	62 39	67 55	69 41	69 39	64 41	71 39	71 40	65 42	69 38	72 36	70 37	65 40	65 39	60 40	59 38	66 38	65 38	67 40	65 39	68 41	69 39	62 41	66 40	65.5 40.4	
MAUNA LOA SLOPE 085	MAX MIN	52 32	55 39	55 39	55 38	55 38	56 37	51 38	50 36	50 36	53 35	48 32	50 33	51 34	54 37	55 40	56 37	56 38	54 39	50 36	44 32	52 31	53 36	52 39	50 38	53 37	52 37	50 36	52 35	53 37	58 40	52.5 36.3	
MOUNTAIN VIEW 91	MAX MIN	76 56	76 56	71 57	79 58	75 59	77 56	76 54	79 54	80 58	80 58	79 60	76 59	78 57	80 55	77 59	77 59	77 61	76 59	76 60	77 56	75 55	76 48	76 48	78 49	79 52	78 53	80 54	79 54	77 58	77 58	77.3 56.0	
NAALEHU 14	MAX MIN				83 54	82 63	81 63				80 60	81 64	80 62	80 65	80 63		83 62	81 66	80 63	79 61	79 60			80 60	78 61	80 61	80 61	81 63				82 62	
OOKALA 223	MAX MIN	80 65	76 67	76 62	78 62	75 63	80 63	78 63	77 63	79 64	80 64	77 64	78 65	78 65	81 64	78 63	80 63	80 63	78 67	77 67	78 63	79 63	75 64	75 61	77 61	77 61	78 65	79 63	79 63	75 63	80 63	78.0 63.5	
OPIHIHOLE 2 24.1	MAX MIN	78 55	79 53	76 53	73 50	78 55	80 53	77 54	78 56	79 54	82 58	81 54	78 55	75 55	75 54	79 55	80 56	77 55	77 54	79 56	73 53	80 57	77 58	77 54	77 56	76 58	77 58	79 55	77 58	77 59	79 57	83 58	77.8 55.4
PAHALA 21	MAX MIN				83 60	80 59	78 60				81 61	81 61	80 61	81 60	80 57		81 60	81 62	79 61	79 61	75 61			79 56	77 56	78 58	79 60	80 58				80 58	
PUUKOHOLA HEIAU 98.1	MAX MIN	85 65	84 65	84 65	80 65	82 65	82 65	82 65	80 65		83 65	83 65	83 65	83 65	82 62	82 62	84 62	80 60	76 60	81 61	81 61	86 66	86 66			83 63	83 62	83 60	85 69		91 65	82.8	
SOUTH KONA 2-31	MAX MIN	69 55	75 59	71 57	78 58	74 51	73 52	75 54	76 58	75 61	72 59	77 60	76 52	77 57	69 53	74 53	75 54	75 56	77 54	74 52	68 53	70 49	78 48	79 46	73 48	73 50	75 55	76 48	76 55	74 58	76 59	74.4 54.1	
UPOLU POINT USCG 159.2	MAX MIN	80 67	80 67	80 65	81 65	82 69	81 67	82 63	81 68	81 68	82 69	82 68	85 68	83 66	81 66	82 65	82 67	82 69	83 68	82 67	82 68	80 66	80 66	79 66	80 64	80 67	84 66	81 66	82 67	79 66	77 67	82 68	81.3 66.7

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# DAILY TEMPERATURES

HAWAII AND PACIFIC  
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STATION		DAY OF MONTH																															AVERAGE	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
PACIFIC																																		
• • •																																		
EAST OF 180TH MERIDIAN																																		
CANTON ISLAND	MAX MIN																																	
JOHNSTON WSO AP	MAX MIN	81 74	81 73	80 72	80 71	81 74	80 73	81 72	80 71	81 72	82 71	81 71	82 73	82 75	82 74	84 74	84 74	84 73	81 74	81 75	81 73	80 73	81 72	83 71	81 73	82 74	81 73	80 73	79 71	81 74	82 75	82 72	81.3 72.9	
LEONE	MAX MIN	92 90	91 89	90 88	90 88	89 87	93 91	95 93	94 92	94 92	93 91	92 90	92 90	93 91	90 88	92 90	91 89	88 86	89 87	93 91	90 88	93 91	90 88	92 90	91 89	90 88	92 90	91 89	88 86	89 87	90 88	91 89	90 88	91.3
FRENCH FRIGATE SHOALS	MAX MIN	81 70	79 70	79 71	79 67	78 67	80 67	76 67	78 68	78 64	77 67	78 64	78 66	79 67	79 66	78 73	76 71	78 71	81 68	81 66	81 63	77 68	79 65	78 73	78 69	76 69	78 69	79 65	74 65	74 66	76 68	78 68	78.1 67.8	
MIDWAY SAND ISLAND	MAX MIN	75 69	76 66	69 62	75 62	66 59	72 54	69 54	67 53	66 55	67 56	68 58	65 62	74 64	76 64	67 52	66 51	69 53	69 57	68 59	72 58	74 57	68 55	64 53	70 60	68 52	62 52	65 56	70 60	69 64	67 54	66 53	69.0 57.5	
PAGO PAGO WSO AP	MAX MIN	87 75	87 81	88 80	87 80	87 75	87 72	90 71	88 75	89 75	88 73	89 78	89 82	90 74	89 74	88 73	89 74	90 75	89 75	86 75	87 77	88 76	88 77	88 77	87 75	88 73	84 75	87 78	88 75	88 75	87 79	87.9 75.8		
SWAINS ISLAND	MAX MIN																																	
• • •																																		
WESTERN PACIFIC ISL. NORTH OF 12 N																																		
ANDERSEN AFB GUAM	MAX MIN	83 77	85 78	84 76	84 77	85 80	84 79	85 79	84 78	83 78	85 80	85 79	83 76	84 78	84 75	83 78	84 78	85 78	81 77	83 77	83 78	83 78	83 77	84 78	84 77	83 77	83 77	84 75	82 72	81 70	78 75	84 78	83.5 77.1	
CLARK AFB LUZON	MAX MIN	86 72	90 72	86 72	84 72	88 70	84 72	88 72	88 73	90 72	88 73	88 72	90 72	90 73	86 72	86 70	84 70	90 72	86 73	86 73	84 73	82 73	86 73	84 73	90 73	88 72	88 73	90 75	84 73	88 72	86 73	84 72	87.0 72.4	
GUAM NAS	MAX MIN	83 76	85 76	86 76	85 75	85 77	85 76	85 77	84 78	82 76	86 77	85 77	82 75	84 77	84 73	84 75	84 74	83 76	83 76	88 76	88 76	88 76	85 75	83 77	86 76	84 75	84 76	87 74	85 73	85 72	80 75	86 77	84.4 75.5	
GUAM WSMO	MAX MIN	83 68	83 70	83 73	84 72	83 72	84 72	84 73	83 71	83 70	84 73	84 73	82 71	83 72	83 71	83 65	83 69	83 72	83 69	82 71	83 70	83 69	83 71	83 72	85 67	83 72	84 69	84 65	84 57	85 56	77 69	84 74	83.2 69.6	
SAIPAN LORAN	MAX MIN																																	
WAKE WSO AP	MAX MIN	82 70	83 72	82 73	84 73	83 73	80 75	80 74	81 75	82 73	80 73	80 70	80 71	82 72	83 70	80 70	79 72	77 71	75 71	75 72	80 71	84 70	87 74	79 73	80 71	83 71	79 71	79 70	83 69	81 76	78 71	81 72	80.7 71.9	
• • •																																		
CAROLINE AND MARSHALL ISLANDS																																		
ENIWETAK	MAX MIN	84 79	84 79	83 77	83 80	84 79	83 79	83 79	81 79	83 79	83 80	82 79	83 78	81 77	82 79	81 79	84 79	82 79	83 79	81 77	83 78	79 77	84 78	81 78	85 78	83 79	82 78	83 79	85 79	84 79	85 77	82 77	82.8 78.5	
FALALOP I. ULITHI	MAX MIN		86 82	84 78	84 76	84 76	81 79	82 78	81 79		82 79	83 79	83 79		83 79	83 77		83 79	84 79	83 79		83 79		84 79	83 76	80 75	82 79	83 76	84 79	83 79	84 79	81 77	84 77	83.0 78.4
KAPINGAMARANGI ATOLL	MAX MIN	88 75	88 74	88 76	90 77	88 74	89 77	88 72	85 73	86 74	87 75	88 76	86 74	87 76	86 76	88 76	88 76	89 77	91 77	89 79	90 77	91 77	88 78	90 77	90 77	82 70	89 78	89 78	89 75	85 72	88 76	90 78	88.1 75.8	
KOROR WSO	MAX MIN	88 77	87 76	89 74	88 76	89 75	88 74	84 76	85 75	87 75	86 78	86 72	87 77	87 78	87 75	88 76	88 75	88 73	89 75	86 74	86 78	89 78	86 75	86 73	89 77	88 76	88 75	88 77	88 76	88 75	88 74	88 76	87.5 75.5	
KWAJALEIN MISSILE RM	MAX MIN	85 79	85 79	86 78	86 75	85 76	85 78	83 79	85 78	85 77	85 74	84 78	83 77	85 76	85 77	85 77	85 77	85 77	85 77	86 77	86 77	86 78	85 78	86 76	86 76	85 76	86 76	86 77	86 77	86 75	87 77	86 77	85.3 77.1	
LELE I. KUSAIE	MAX MIN	91 80	91 75	90 80	91 75	92 77	90 80	87 79	88 80	89 75	89 76	88 77	91 76	89 77	89 76					88 75	88 76	89 76	89 76	88 76	90 76	90 75	88 79	89 79	89 74	90 77	89 75	89 76	89.3 77.1	
MAJURO WSO AP	MAX MIN	85 78	85 75	82 74	83 78	84 78	84 78	85 77	84 78	85 75	85 76	84 77	83 78	82 74	83 73	85 77	82 76	84 74	84 77	84 77	85 76	85 76	86 76	85 77	84 75	85 76	84 78	84 75	87 75	86 76	86 78	84.3 76.2		
METALANIM	MAX MIN	89 85	87 72	86 79	86 80	84 82	85 81	88 80	87 80	85 79	85 80	84 80	84 81	83 80	86 80	88 81	84 83	84 79	86 80	85 81	86 80	86 81	89 85	88 86	86 81	86 80	86 80	88 80	89 80	87 79	88 79	88 79	85.9 80.1	
PONAPE WSO	MAX MIN	86 78	87 78	88 77	87 77	86 79	87 75	85 75	87 75	85 75	85 75	87 75	87 77	84 77	87 76	80 73	84 75	84 76	83 77	87 77	85 75	88 75	89 74	87 78	89 76	86 76	86 77	85 77	87 78	85 74	89 73	85 76	86.0 76.0	
SATAWAN ATOLL	MAX MIN																																	
TRUK. MOEN I. WSO AP	MAX MIN	85 76	85 78	85 79	88 75	87 75	86 79	86 77	85 80	85 78	85 80	86 76	86 79	86 79	86 78	85 78	85 78	81 74	84 74	85 77	85 78	85 77	84 75	87 78	86 78	85 78	86 78	86 74	86 77	86 76	85 77	85.4 77.2		
WOLEAI ATOLL	MAX MIN																																	
YAP WSO AP	MAX MIN	87 74	88 76	86 74	87 74	86 74	85 70	85 74	85 74	86 76	86 74	85 74	86 75	86 75	83 74	85 74	86 73	86 73	86 74	86 76	85 74	84 76	86 75	86 76	87 74	87 75	85 77	86 72	85 72	86 75	85 75	86 75	85.7 74.3	

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# EVAPORATION AND WIND

HAWAII AND PACIFIC  
JANUARY 1977

STATION		DAY OF MONTH																															TOTAL OR AVG.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
HAWAII * * * ISLAND OF KAUAI																																	
LIHUE WSO 1020-1 AP		EVAP	.33	.26	.20	.20	.15	.13	.22	.17	.19	.21	.24	.12	.20	.03	.16	.31	.19	.15	.10	.15	.35	.28	.18	.25	.15	.16	.20	.08	.21	.23	.14
		WIND	234	206	158	81	75	87	74	64	100	123	123	113	112	76	82	170	150	95	71	67	72	102	77	151	119	116	125	74	101	83	178
		MAX	81	81	80	80	83	81	85	80	91	85	82	77	82	82	85	85	85	85	85	85	85	81	81	81	78	84	81	77	78	83	83
		MIN	64	65	66	59	59	60	66	62	62	65	65	65	67	65	64	67	68	63	67	64	60	59	59	64	66	64	64	60	60	60	65
* * * ISLAND OF OAHU																																	
HONOLULU OBSERV 702.2		EVAP	.30	.26	.15	.27	.15	.30	.21	.24	.20	.20	.33	.08	.20	.24	.18	.30	.21	.24	.21	.22	.10	.26	.19	.30	.25	.30	.30	.27	.20	.30	.22
		WIND	34	28	24	26	23	31	28	22	41	48	44	43	39	26	24	61	52	24	29	23	33	23	32	43	30	40	60	45	39	24	61
		MAX	86	85	84	84	84	83	85	87	85	87	88	82	85	86	87	88	86	89	87	87	85	85	83	83	87	86	85	86	82	83	88
		MIN	65	65	64	61	61	64	64	63	64	62	69	68	65	64	63	64	69	67	62	60	62	59	58	61	62	67	66	64	59	69	65

SEE REFERENCE NOTES FOLLOWING STATION INDEX

# EVAPORATION AND WIND

HAWAII AND PACIFIC  
JANUARY 1977

STATION		DAY OF MONTH																															TOTAL OR AVG.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
PACIFIC																																	
EAST OF 180TH MERIDIAN																																	
JOHNSTON WSO AP	EVAP	.33	.33	.16	.24	.31	.30	.21	.21	.25	.27	.22	.25	.19	.33	.28	.20	.28	.20	.27	.33	.32	.32	.22	.31	.30	.19	.28	.28	.27	.28	.19	8.12
	WIND	295	295	150	203	181	146	131	92	69	30	105	64	157	170	101	135	53	123	143	164	190	209	103	83	143	59	128	244	224	89	99	4421
	MAX	80	81	79	81	84	84	85	84	86	86	87	86	83	84	84	88	91	87	85	86	82	83	89	88	86	87	86	74	85	88	83	84.7
	MIN	66	67	67	67	65	67	66	67	66	68	67	68	66	67	66	67	64	66	66	66	66	66	66	67	66	66	67	67	67	66	66	66.5
WESTERN PACIFIC ISL. NORTH OF 12 N																																	
GUAM WSMO	EVAP	.19	.32	.28	.22	.27	.27	.21	.17	.17	.19	.14	.22	.28	.24	.17	.21	.25	.32	.16	.22	.13	.20	.22	.19	.20	.24	.14	.22	.21	.18	-	6.648
	WIND	182	177	164	119	177	155	194	182	195	203	161	138	166	146	92	97	143	150	145	234	114	101	158	113	137	152	100	26	32	88	165	4406
	MAX	81	80	82	82	81	82	80	79	78	81	81	80	82	82	82	81	83	82	79	81	82	88	87	92	88	92	91	92	91	89	88	83.7
	MIN	66	64	66	66	67	65	67	69	69	66	67	66	65	65	63	65	65	64	66	68	65	71	71	68	74	70	71	66	64	73	72	67.2

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								TEMP.	PRECIP.	EVAP.	SPECIAL (SEE NOTES)	
HAWAII												
ISLAND OF KAUAI												
ALEXANDER RESV. 983	0140	02	KOLOA	2	21 57	159 32	1610				C	MC8RYOE SUGAR CO.
ANAHOLA 1114	A 0145	01	KAWAIIHOU	1	22 08	159 18	180		7A		C	LIHUE PLANTATION CO
8RYOESWOOD STA 985	A 0240	02	KOLOA	2	21 56	159 32	720		7A			MC 8RYOE SUG CO LTD
EAST LAWA 934	A 0456	02	KOLOA	2	21 55	159 30	440		7A			MC 8RYOE SUG CO LTD
ELEELE 927	A 0470	02	KOLOA	2	21 54	159 35	163		6A			MC 8RYOE SUG CO LTD
HALAULA 1110	A 0935	01	KAWAIIHOU	1	22 07	159 19	253		7A			LIHUE PLTN CO LTD
HALENANAO 1006	A 1038	02	LIHUE	2	21 58	159 26	490		8A			LIHUE PLANTATION CO
HANAIEI TUNNEL 1053	A 1170	01	KAWAIIHOU	1	22 05	159 28	1218				S	LIHUE PLTN CO LTD
HUKIPO 945	2161	03	WAIMEA	3	21 59	159 41	800		8A			KEKAHA SUGAR CO LTD
ILIILILUA INTAKE 1050	A 2222	02	LIHUE	2	22 02	159 28	1050		VAR			LIHUE PLTN CO LTD
INTAKE WAINIHA PC 1086A	2227	01	HANAIEI	1	22 09	159 34	690		WI			MC 8RYOE SUG CO LTD
KANALOHULUHULU 1075	3099	03	WAIMEA	3	22 08	159 40	3600	7A	7A		C	STATE DIVISION OF PARKS
KANEHA RESERVOIR 1092	A 3104	01	KAWAIIHOU	1	22 08	159 23	830		7A			LIHUE PLANTATION
KAPAA STABLES 1104	A 3159	01	KAWAIIHOU	1	22 05	159 20	175		7A		C	LIHUE PLTN CO LTD
KEALIA 1112	A 3982	01	KAWAIIHOU	1	22 06	159 19	9		7A			LIHUE PLTN CO LTD
KEKAHA 944	4272	03	WAIMEA	3	21 58	159 43	9		8A		C	KEKAHA SUGAR CO LTD
KILAUEA 1134	A 4561	01	HANAIEI	1	22 13	159 25	320		7A		C	NICK RAPOZO
KILAUEA POINT 1133	4568	01	HANAIEI	1	22 14	159 24	180	8A	8A			MELVALEIGH SEILLEMAKER
KOLO 1033	4735	03	WAIMEA	3	22 04	159 46	36		7A			KEKAHA SUGAR CO LTD
KOLOA 936	A 4742	02	KOLOA	2	21 55	159 28	240		8A			MC8RYOE SUGAR CO
KOLOA LN (MAK) 940.1	4748	02	KAUAI	2	21 52	159 27	52	A0Z	A0Z			AUSCG LORAN STATION
KOLOA MAUKA 994	A 4750	02	KOLOA	2	21 57	159 29	640		7A			MC8RYOE SUGAR COMPANY
KUKUIULA 935	A 4950	02	KOLOA	2	21 54	159 30	100		6A			MC 8RYOE SUG CO LTD
LIHUE VARIETY ST 10621A	5560	02	LIHUE	2	22 01	159 23	380		7A		C	LIHUE PLANTATION CO LTD
LIHUE 1020	A 5575	02	LIHUE	2	21 59	159 22	207		7A			LIHUE PLTN CO LTD
LIHUE WSO 1020.1 AP	R 5580	02	LIHUE	2	21 59	159 21	103	M10	M10	M10C	J	NATL WEATHER SERVICE
MAKAWELI 965	A 5864	03	WAIMEA	3	21 55	159 38	140		7A			OLDKELE SUGAR CO
MANA 1026	6082	03	WAIMEA	3	22 02	159 46	20	8A	8A			KEKAHA SUGAR CO LTD
MOHIHI UPR CROSS 1083	A 6433	01	WAIMEA	3	22 07	159 36	3500		M10		S	U S GED SURVEY
MOLOAA 1145	A 6529	01	KAWAIIHOU	1	22 11	159 20	330		7A			THEODORE JAVELLANA JR
MOUNT WAIALEALE 1047	R 6565	03	WAIMEA	2	22 04	159 30	5148		M10		S	U. S. GED. SURVEY
NIU RIDGE 1035	6850	03	WAIMEA	3	22 02	159 44	1250	6A	6A			KEKAHA SUGAR CO LTD
N WAILUA OITCH 1051	A 6888	02	LIHUE	2	22 04	159 28	1110		7A			LIHUE PLTN CO LTD
N WAILUA RIVER 1055	A 6893	02	LIHUE	2	22 04	159 26	650				S	LIHUE PLTN CO LTD
PH WAINIHA 1115	8155	01	HANAIEI	1	22 12	159 34	101		6A		C	MC 8RYOE SUG CO LTD
PRINCEVILLE RANCH 1117	8165	01	HANAIEI	1	22 13	159 29	295		9A		C	PRINCEVILLE RANCH INC
PUEHU RIDGE 1040	8205	03	WAIMEA	3	22 01	159 42	1660		8A			KEKAHA SUGAR CO LTD
PUHI 1013	A 8217	02	LIHUE	2	21 58	159 24	329		8A			LIHUE PLANTATION CO
STABLE CAMP 1055.1	8694	02	LIHUE	2	22 04	159 27	740				C	LIHUE PLANTATION CO LTD
WAHIAWA 930	A 8941	02	KOLOA	2	21 54	159 34	215		7A		C	MC 8RYOE SUG CO LTD
WAIHI LOWER 1054	8958	02	LIHUE	2	22 01	159 27	565	6A	6A			LIHUE PLTN CO LTD
WAIHI UPPER 1052	8966	02	LIHUE	2	22 01	159 28	780		6A			LIHUE PLTN CO LTD
WAIWA 943	9253	03	WAIMEA	3	21 59	159 43	10		8A			KEKAHA SUGAR CO LTD
WAILUA KAI 1065	A 9467	02	LIHUE	2	22 02	159 21	50		7A			LIHUE PLANTATION
WAIMEA 947	9629	03	WAIMEA	3	21 58	159 41	20		8A			KEKAHA SUGAR CO.
WEST LAWA 931	A 9955	02	KOLOA	2	21 54	159 31	210		6A			MC 8RYOE SUG CO LTD
ISLAND OF OAHU												
AHUIMANU LOOP 839.12	0055	01	KOOLAUPOKO	1	21 26	157 51	320				C	DON MITCHELL
ALOHA STADIUM-HALAWA	0172	03	OAHU	3	21 23	157 56	40	8A	8A			ALOHA STADIUM
8ERETANIA PUMPING STA	0211	02	HONOLULU	2	21 19	157 51	20		9A			BOARD OF WTR SUPPLY
8 Y U LAIE 903.1	0240	01	KOOLAUPOKO	1	21 39	157 56	20	12M	12M			8 Y U-HAWAII CAMPUS
CAMPBELL INO PK 702.5	0248	02	OAHU	3	21 19	158 07	10		8A			CHEVRON U S A INC
CAMP 84 807	A 0300	03	EWA	3	21 26	158 04	760		6A		C	DEL MONTE CORPORATION
COCONUT ISLAND 840.1	0350	01	KOOLAUPOKO	1	21 26	157 47	15		8A			H INST MARINE BIOLOGY
ODWSETT HIGHLOS 780.8	0438	02	HONOLULU	2	21 21	157 50	565				C	J.L. BANNING
EWA PLANTATION 741	0507	03	EWA	3	21 21	158 02	5	9A	7A			OAHU SUGAR COMPANY
HALAWA SHAFT 771.2	0964	02	HONOLULU	2	21 23	157 54	170				C	BOARD OF WATER SUPPLY
HELEMANO INTAKE 881	A 1384	05	WAIALUA	5	21 33	158 00	1274		WI		C	WAIALUA SUGAR CO. INC.
HOKULA 725.2	A 1540	03	EWA	3	21 24	158 06	2220				C	H. V. VON HOLT
HONOLULU OBSERV 702.2	1918	03	EWA	3	21 19	158 00	5		9A	9A		NATIONAL WEATHER SERV
HONOLULU WSO 703 AP	R 1919	02	HONOLULU	2	21 20	157 55	7	M10	M10		C	NATL WEATHER SERVICE
HONOLULU SUBSTA 704	R 1924	02	HONOLULU	2	21 19	157 52	12	M10	M10		C	CLOSED 12/21/76
KAA LAKEI 724.6	2269	02	HONOLULU	2	21 18	157 43	10				C	MRS. MILLIE ZAPATA
KAENA POINT 841.3	2410	04	WAIALUA	4	21 34	158 15	1240		9A			U S AIR FORCE
KAHANA 883	A 2462	01	KOOLAUPOKO	1	21 31	157 54	800		WI			WAIHOLE WTR CO LTD

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								TEMP.	PRECIP.	EVAP.	SPECIAL (SEE NOTES)		
ISLAND OF OAHU													
KAHUKU 912	A	2570	01	KOOLAULOA	1	21 42	157 59	15				C	KIULIMA HOTEL
KAILUA FIRE STA 791.3		2683	01	KOOLAUPOKO	1	21 24	157 45	10		8A		C	KAILUA FIRE STATION
KALAMA VALLEY 724-13		2842	02	OAHU	2	21 18	157 41	75				C	GRADEN HARGER
KALIHI RES SITE 777	R	2960	02	HONOLULU	2	21 23	157 50	910		MIO			BOARD OF WTR SUPPLY
KANEOME MAUKA 781		3113	01	KOOLAUPOKO	1	21 25	157 49	325	7A	7A			STATE HOSPITAL
KAPALAMA 773	A	3268	02	HONOLULU	2	21 21	157 52	614		8A			KAMEHAMEHA SCHOOLS
KAWAIIHAPAI 841	A	3734	05	WAIALUA	5	21 35	158 11	40		7A			WAIALUA SUGAR CO. INC.
KEMOO CAMP 8 855	A	4318	05	WAIALUA	5	21 33	158 05	725		7A			WAIALUA SUGAR CO. INC.
KOOLAU DAM 833	A	4766	05	WAIHAWA	5	21 30	157 58	1160		8A			C & F OFFICER HEOG
LULUKU 781.7		5655	01	KOOLAUPOKO	1	21 24	157 49	240				C	NATIONAL WEATHER SERV
MAKAHA KAI 796.1	A	5766	04	WAIANAE	4	21 28	158 13	15		7A			HAROLO ROBERTS
MAKAHA PUMP 800.2	A	5782	04	OAHU	4	21 29	158 12	400		8A		C	CAPITAL INVESTMENT CO.
MAKAKILO 730.1		5789	03	OAHU	3	21 21	158 06	300		6A			NEAL AORMS
MANOA 712.1		6122	02	HONOLULU	2	21 19	157 49	220		7A			MRS. JOHN H. BEAUMONT
MANOA LYON ARBORETUM		6128	02	OAHU	2	21 20	157 48	500	8A	8A			LYON ARBORETUM
MANOA TUNNEL 2 716	R	6130	02	HONOLULU	2	21 20	157 48	650		MIO			BOARD OF WTR SUPPLY
MAUNAWILI 787.1		6222	01	KOOLAUPOKO	1	21 21	157 46	410				C	EXP. STA. H.S.P.A.
MORNALUA 770		6395	02	HONOLULU	2	21 21	157 54	20		9A			JOHN A ROXBURGH
MOMILANI 835.1		6547	03	OAHU	3	21 25	157 58	325				C	CHESTER T KAINUMA
MOUNT KAALA 844		6553	04	WAIANAE	4	21 31	158 09	4015				C	FEDERAL AVIATION ADM
NUUANU RES 4 783		6928	02	HONOLULU	2	21 21	157 49	1048		MIO			BOARD OF WTR SUPPLY
NUUANU RESERV 5 775	A	6933	02	HONOLULU	2	21 21	157 50	410		WI			BOARD OF WTR SUPPLY
OPAEULA 870	A	7150	05	WAIALUA	5	21 34	158 02	1060	7A	7A		C	WAIALUA SUGAR CO. INC.
PAIKO DR 723.4		7540	02	HONOLULU	2	21 17	157 44	10		7A			O L GRUBB
PALI GOLF COURSE 788.1		7656	01	OAHU	1	21 23	157 47	480		10A			CC DEPT PKS RECREATION
PALOLO VALLEY 718	R	7664	02	HONOLULU	2	21 20	157 46	995		MIO			BOARD OF WTR SUPPLY
PAUOA FLATS 784	R	7810	02	HONOLULU	2	21 21	157 48	1640		MIO			BOARD OF WTR SUPPLY
PUNALUU PUMP 905.2		8314	01	KOOLAULOA	1	21 35	157 54	20				C	MRS DAVID DELAO
PUNCHBOWL CRATER 709	A	8316	02	HONOLULU	2	21 19	157 51	360		8A			NAT MEM CEMETERY
PUPUKA HEIGHTS 896.4		8342	01	WAIALUA	1	21 39	158 02	900				C	JACK N. WHEELER
PUU MANAWAHUA 725.6		8500	03	OAHU	3	21 23	158 05	2080		8A			HUGH HAMILTON
SEA LIFE PARK 724.14		8665	01	OAHU	1	21 19	157 40	40				C	SEA LIFE PARK
TANTALUS PEAK 780		8730	02	HONOLULU	2	21 20	157 49	2000				C	NATIONAL WEATHER SERV
TANTALUS 2 780.5		8738	02	HONOLULU	2	21 20	157 50	1325		7A			R. E. WHITE
UNIV OF HAWAII 713	A	8815	02	HONOLULU	2	21 18	157 49	79		8A			DEPT OF GEOSCIENCE
UPPER WAIHAWA 874.3		8838	05	OAHU	5	21 31	158 01	1115		6A			W B RUTHERFORD
WAIHAWA DAM 863	A	8945	05	WAIHAWA	5	21 30	158 03	854		7A		C	WAIALUA SUGAR CO. INC.
WAIHOLE 837	A	8964	01	KOOLAUPOKO	1	21 28	157 53	745		8A		C	WAIHOLE WTR CO LTD
WAIALAE KAHALA 715		9185	02	HONOLULU	2	21 17	157 47	40		7A			SPENCER TINKER
WAIALEE 896.3		9190	01	KOOLAULOA	1	21 41	158 02	33	8A	8A			WAIALEE LIVESK RES FARM
WAIALUA 847	A	9195	05	WAIALUA	5	21 35	158 07	32	7A	7A		C	WAIALUA SUGAR CO. INC.
WAIANAE 798.2	A	9231	04	WAIANAE	4	21 27	158 11	10		7A			8EN MAYES
WAIANAE KAWIWI 801.1		9234	04	OAHU	4	21 28	158 11	40				C	MOUNTAIN VIEW DAIRY
WAIANA 836	A	9261	03	EWA	3	21 28	157 56	800		MO			WAIHOLE WTR CO LTD
WAIKANE 885	A	9340	01	KOOLAUPOKO	1	21 30	157 53	760		WI			WAIHOLE WTR CO LTD
WAIKIKI 717.2		9397	02	HONOLULU	2	21 16	157 49	10	8A	8A			HONOLULU ZOO
WAILUPE VLY SCH 723.6		9500	02	HONOLULU	2	21 18	157 45	180				C	WAILUPE VALLEY SCHOOL
WAIMANALO EXP FARM		9523	01	KOOLAUPOKO	1	21 20	157 43	60	7A	7A			WAIMANALO EXP FARM
WAIMANALO NONOKI 795.2	A	9534	01	OAHU	1	21 20	157 43	120				C	WAIMANALO EXP FARM
WAIMER 892		9593	05	WAIALUA	5	21 38	158 04	330		7A		C	WAIALUA SUGAR CO. INC.
WAIPAHU 750	A	9738	03	EWA	3	21 23	158 01	59		8A			WAIHOLE WATER COMPANY
WILHELMINA RISE 721	R	9980	02	HONOLULU	2	21 18	157 47	1100		MIO			BOARD OF WTR SUPPLY
ISLAND OF MOLOKAI													
KALAUPAPA 563	A	2896	01	MOLOKAI	1	21 12	156 59	30		8A			KALAUPAPA SETTLEMENT
KAUNAKAKAI 536		3541	01	MOLOKAI	1	21 06	157 01	12		7A			MOLOKAI RANCH LTD
KAUNAKAKAI MAUKA 536.5		3547	01	MOLOKAI	1	21 06	157 01	70				C	MOLOKAI GENERAL HOSP.
KEONELELE PENS 551	A	4394	01	MOLOKAI	1	21 12	157 12	560		VAR			MOLOKAI RANCH, LTD.
KUALAPUU 534	A	4778	01	MOLOKAI	1	21 09	157 02	878		7A		C	OEL MONTE CORPORATION
MAUNALO 511	A	6190	01	MOLOKAI	1	21 08	157 13	1070		9A		C	MOLOKAI RANCH COMPANY
MOLOKAI AP 524		6534	01	MOLOKAI	1	21 09	157 06	450	8A	8A			ALOHA AIRLINES
PUU O HOKU RANCH 542.1		8549	01	MOLOKAI	1	21 09	156 44	700		6A		C	PUU O HOKU RANCH
WAIKOLU 540	A	9404	01	MOLOKAI	1	21 08	156 55	3550		WI			MOLOKAI RANCH COMPANY
ISLAND OF LANAI													
KANEPUU 690	A	3130	01	LAHAINA	1	20 52	157 00	1650		WI			U S D A
KAMALAPAU HAR80R 658		3461	01	LAHAINA	1	20 47	157 00	30		8A		C	OOLE COMPANY
LANAI AIRPORT 656		5275	01	LAHAINA	1	20 48	156 57	1300	8A	8A			HAWAIIAN AIR

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								TEMP.	PRECIP.	EVAP.	SPECIAL (SEE NOTES)	
ISLAND OF LANAI												
LANAI CITY 672	A 5286	01	LAHAINA	1	20 50	156 55	1620	7A	7A		C	DOLE COMPANY
LANAIHALE 684	A 5301	01	LAHAINA	1	20 49	156 53	3370		WI			U S D A
MAHANA 694	A 5704	01	LAHAINA	1	20 52	156 55	1430		MO			U S D A
MALAEUA 676	A 6012	01	LAHAINA	1	20 46	156 55	1150		WI			U S D A
WAIKAEAKUA 685	A 9021	01	LAHAINA	1	20 47	156 52	2000		WM			KOELE COMPANY
ISLAND OF MAUI												
AUKAHI 252	A 0175	02	HANA	2	20 37	156 20	2060		VAR			ULUPALAKUA RANCH
HAELAAU 477	0790	04	LAHAINA	4	20 57	156 36	2980					MAUI LAND-PINEAPPLE CO
HALEAKALA 8 E S 434	A 0995	01	MAKAWAO	1	20 51	156 18	2100		7A			U OF H AGRIC EXP STA
HALEAKALA RANCH 432	A 0999	01	MAKAWAO	1	20 50	156 19	1850		8A			HALEAKALA RANCH CO
HALEAKALA R5 338	1004	02	MAKAWAO	2	20 46	156 15	7030	8A	8A			HALEAKALA NAT PARK
HALIIMAIL 423	A 1075	01	MAKAWAO	1	20 52	156 21	1070		3A			MAUI LAND-PINEAPPLE CO
HAMAKUPOKO 485	1086	01	MAKAWAO	1	20 55	156 21	320		5A			HAWAIIAN COM & SUG CO
HANA 354	A 1122	01	HANA	1	20 45	155 59	120		8A		C	HARRY HASEGAWA
HANA AIRPORT 355	1125	01	HANA	1	20 48	156 01	61	8A	8A			ROYAL HAWAIIAN AIRLINES
HOLUA CABIN 259.5	A 1552	02	MAKAWAO	2	20 45	156 13	6930		MO			HALEAKALA NATL PARK RGS
HONOKOHU 480	A 1882	04	LAHAINA	4	20 58	156 36	870		MO			MAUI LAND-PINEAPPLE CO
HONOKOHU 493	A 1887	04	LAHAINA	4	21 00	156 39	135		6A			MAUI LAND-PINEAPPLE CO
HONOLUA FLD 49 494	1914	04	LAHAINA	4	21 01	156 38	125					MAUI LAND-PINEAPPLE CO
HONOMANU GULCH 341	A 1935	01	MAKAWAO	1	20 47	156 14	6280		MO			HALEAKALA RANCH CO
IAO NEEDLE 387.2	2208	03	WAILUKU	3	20 53	156 33	1080				C	STATE DIVISION OF PARKS
KAAHAPALI AP 453.1	2307	04	LAHAINA	4	20 56	156 42	8	8A	8A			AMFAC PROPERTIES INC
KAHOMA INTAKE 374	A 2552	04	LAHAINA	4	20 54	156 38	2000		WI			PIONEER MILL CO LTD
KAHULUI W50 398 AP	R 2572	03	WAILUKU	3	20 54	156 26	48	MID	MID		C J	NATL WEATHER SERVICE
KAILIILI 436	A 2630	01	MAKAWAO	1	20 51	156 16	2520		MO			E MAUI IRR CO LTD
KAILUA 446	2679	01	MAKAWAO	1	20 54	156 13	700	7A	7A			E MAUI IRR CO LTD
KAUOLA INTAKE 375	A 3433	04	LAHAINA	4	20 53	156 38	1585		WI			PIONEER MILL CO LTD
KAUPO RANCH HOUSE 259	3576	02	HANA	2	20 39	156 08	1020				C	KAUPO RANCH
KEAHUA 410	3910	03	MAKAWAO	3	20 52	156 23	480		5A			HAWAIIAN COM & SUG CO
KEANAE 346	A 4091	01	HANA	1	20 50	156 10	980		MO			E MAUI IRR CO LTD
KEAWAKAPU BEACH 260.2	4193	02	MAKAWAO	2	20 42	156 27	20	8A	8A		C	ALLEN L CARELL
KIHEI 311	4489	03	WAILUKU	3	20 47	156 27	90		7A			HAWAIIAN COM & SUG CO
KIPAHULU 258	4634	01	HANA	1	20 39	156 04	260		7A			HANA RANCH-KIPAHULU SEC
KUIAHA EXP STN	4840	01	MAUI	1	20 54	156 18	920				C	U H AGRICULTURE EXP STN
KUKUI 380	4887	04	LAHAINA	4	20 54	156 35	5788					MAUI LAND-PINEAPPLE CO
KULA HEIGHTS 323.2	5003	02	MAKAWAO	2	20 47	156 19	2520		6A		C	KENNETH WILLEY
KULA SANATORIUM 267	5006	02	MAKAWAO	2	20 42	156 22	3004	7A	7A			KULA SANATORIUM
LAHAINA 361	5177	04	LAHAINA	4	20 53	156 41	45	7A	7A		C	PIONEER MILL CO LTD
LAUNIUPOKO INTAKE 376	A 5404	04	LAHAINA	4	20 51	156 37	1280		WI			PIONEER MILL CO LTD
LAUNIUPOKO VILLAGE 372A	5408	04	LAHAINA	4	20 51	156 39	220		7A			PIONEER MILL CO LTD
LUPI UPPER 442	A 5665	01	MAKAWAO	1	20 53	156 15	1240		MO			E MAUI IRR CO LTD
MAHINAHINA 466	A 5715	04	LAHAINA	4	20 57	156 40	715		7A			PIONEER MILL CO LTD
MOKUPEA 475	6521	04	LAHAINA	4	20 59	156 37	1290					MAUI LAND-PINEAPPLE CO
NAKALELE FIELD 60 497	A 6645	04	LAHAINA	4	21 02	156 36	340		VAR			MAUI LAND-PINEAPPLE CO
OLINDA 332	A 7040	01	MAKAWAO	1	20 48	156 17	4127		VAR			EAST MAUI IRRIGATION CO
OWALU 296	7059	04	LAHAINA	4	20 49	156 38	7		7A			PIONEER MILL CO LTD
PAAKEA 350	7194	01	HANA	1	20 49	156 07	1260		VAR		C	E MAUI IRR CO LTD
PAIA 406	7566	01	WAILUKU	1	20 55	156 23	170		6A			HAWAIIAN COM & SUG CO
PANILEIHULU 259.2	A 7674	02	HANA	2	20 41	156 08	3570		MO			KAUPO RANCH CO.
PEAHI 488.6	7952	01	MAUI	1	20 54	156 17	830		9A			BERNARD RUPLINGER
POHAKA BRIDGE 307.2	A 8060	03	WAILUKU	3	20 49	156 31	167		6A			WAILUKU SUGAR CO
POLIPOLI SPRINGS 267.2A	8070	02	MAKAWAO	2	20 41	156 20	6150		VAR			STATE DIV OF FORESTRY
PUOHOKAMOA 2 343	A 8336	01	HANA	1	20 50	156 13	2980		MO			E MAUI IRR CO LTD
PUUNENE 396	8543	03	WAILUKU	3	20 53	156 27	60		7A			HAWAIIAN COM & SUG CO
PUU PAKI 352	A 8553	01	HANA	1	20 46	156 03	2160					EAST MAUI IRRIGATION CO
SPRECKELSVILLE 400.2	8688	03	WAILUKU	3	20 54	156 25	85		8A		5	HAWAIIAN COM & SUG CO
TWIN GATES 261.3	A 8742	03	MAKAWAO	3	20 46	156 23	1310		VAR			KAHONOLU RANCH
UKULELE 333	A 8744	01	MAKAWAO	1	20 48	156 15	5230		MO			HALEAKALA RANCH CO
UKUMEHAME 301	A 8750	04	LAHAINA	4	20 48	156 35	75		7A			PIONEER MILL CO LTD
ULUPALAKUA RANCH 250	8760	02	MAKAWAO	2	20 39	156 24	1900		8A		C	ULUPALAKUA RCH CO LTD
WAHIKULI 364	A 8955	04	LAHAINA	4	20 54	156 40	580		8A			PIONEER MILL CO LTD
WAIHEU CAMP 484	A 9275	03	WAILUKU	3	20 55	156 31	320		6A			WAILUKU SUGAR CO
WAIHEE VALLEY 482	A 9315	04	WAILUKU	4	20 57	156 32	300		6A			WAILUKU SUGAR CO
WAIKAMOI 449	A 9332	01	HANA	1	20 52	156 12	1200		MO			E MAUI IRR CO LTD
WAIKAMOI DAM 336	A 9335	01	MAKAWAO	1	20 49	156 14	4320		VAR		C	EAST MAUI IRRIGATION CO
WAIKAPU 390	A 9376	03	WAILUKU	3	20 51	156 31	370		6A			WAILUKU SUGAR CO

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								TEMP.	PRECIP.	EVAP.	SPECIAL (SEE NOTES)	
ISLAND OF MAUI												
WAILUA IKI 348	A 9460	01	HANA	1	20 48	156 09	2630					5 EAST MAUI IRRIGATION CO WAILUKU SUGAR COMPANY HALEKALA RANCH CO
WAILUKU 386	A 9484	03	WAILUKU	3	20 54	156 30	180	7A	7A			
WAIOPAI RANCH 256	A 9765	02	HANA	2	20 38	156 12	220		0C			
ISLAND OF HAWAII												
AHUA UMI 75	A 0040	05	N KONA	5	19 38	155 47	5220		MO			W.H. GREENWELL RANCH NAT HISTORICAL PARK HONOKAA SUGAR CO MAUNA KEA SUGAR CO HAWAII NAT PARK CLOSED 12/31/76 MAUNA KEA OBSERVATORY HA VOLCANOES NAT PK HQS K L BONO REX WILLS II
CITY OF REFUGE 27.4	0344	04	S KONA	4	19 25	155 55	15		9A			
HAINA 214	0840	01	HAMAKUA	1	20 06	155 28	461		8A			
HAKALAU 142	0905	02	S HILO	2	19 54	155 08	105		7A			MAUNA KEA SUGAR CO HAWAII NAT PARK CLOSED 12/31/76 MAUNA KEA OBSERVATORY HA VOLCANOES NAT PK HQS K L BONO REX WILLS II
HALEMAUMAU 52	A 1033	03	KAU	3	19 24	155 17	3648		MO			
HALEPIULA 117	A 1060	01	HAMAKUA	1	19 56	155 24	5770		MO			
HALEPOHAKU 111	A 1065	02	HAMAKUA	2	19 46	155 28	9220		3P			MAUNA KEA OBSERVATORY HA VOLCANOES NAT PK HQS K L BONO REX WILLS II
HAWAII VOLCNS NP HQ 54	1303	02	KAU	2	19 26	155 16	3971	8A	8A	C		
HAWI 168	A 1339	01	N KOHALA	1	20 14	155 50	580		6A	C		
HILO COUNTRY CLUB 86.6	1487	02	HAWAII	2	19 41	155 10	1600		7A	C		
HILO WSO 87 AP	R 1492	02	S HILO	2	19 43	155 04	27	MIO	MIO	C	J	NATL WEATHER SERVICE STATE DIV OF FORESTRY CAPT COOK CATTLE CO SHIGETO L TANAKA MAUNA KEA SUGAR CO MAUNA KEA SUGAR CO STATE DIV OF FORESTRY STATE DIV OF FORESTRY HUEHUE RANCH KAU SUGAR COMPANY, INC
HOLUALOA 70	A 1557	04	N KONA	4	19 38	155 55	3220		MO			
HOLUALOA BEACH 68	A 1562	04	N KONA	4	19 37	155 59	14		7A			
HONANAU 27	1665	04	S KONA	4	19 27	155 53	1089		7A			MAUNA KEA SUGAR CO MAUNA KEA SUGAR CO STATE DIV OF FORESTRY STATE DIV OF FORESTRY HUEHUE RANCH KAU SUGAR COMPANY, INC
HONOHINA 137	1701	02	N HILO	2	19 56	155 09	300		7A			
HONOMU MAUKA 138	1960	02	S HILO	2	19 51	155 09	1100		7A	C		
HONUAULA 71	A 2047	04	N KONA	4	19 40	155 53	6250		MO			MAUNA KEA SUGAR CO STATE DIV OF FORESTRY STATE DIV OF FORESTRY HUEHUE RANCH KAU SUGAR COMPANY, INC
HUALALAI 72	A 2151	04	N KONA	4	19 42	155 52	8190		MO			
HUEHUE 92.1	A 2156	04	N KONA	4	19 45	155 59	1960		6A			
KAALA IKI 12	A 2249	03	KAU	3	19 08	155 34	1340					
KAAHALOA 29	A 2327	04	SOUTH KONA	4	19 30	155 55	1340		8A			CAPT COOK INVESTMENT CO RUSSELL P. SMITH KONA EXPERIMENT STA FLOYD W MC COY HAWAII VOLCANOES NAT PK PARKER RCH-KAPAPALA DIV PARKER RANCH PARKER RCH-KAPAPALA DIV H E MC NICHOLS DEPT OF PUBLIC WORKS
KAHIAWAI 3.4	2512	03	KAU	3	19 08	155 46	3700			C		
KAINALIU 73.2	2751	04	N KONA	4	19 32	155 56	1500	7A	7A			
KALAOA 69.22	2887	04	HAWAII	4	19 44	155 59	2000		8A			HAWAII VOLCANOES NAT PK PARKER RCH-KAPAPALA DIV PARKER RANCH PARKER RCH-KAPAPALA DIV H E MC NICHOLS DEPT OF PUBLIC WORKS
KALAPANA 1 67.8	2894	02	S HILO	2	19 20	155 02	10		VAR			
KAMAOA 2 5	A 3048	03	KAU	3	19 02	155 40	1375		WI			
KAMUELA 192.2	3077	01	S KOHALA	1	20 01	155 40	2670	6A	6A			HAWAII VOLCANOES NAT PK PARKER RCH-KAPAPALA DIV PARKER RANCH PARKER RCH-KAPAPALA DIV H E MC NICHOLS DEPT OF PUBLIC WORKS
KAPAPALA RANCH 36	A 3300	03	KAU	3	19 17	155 27	2140		6A			
KAPOHO BEACH 93.11	3368	02	HAWAII	2	19 30	154 49	12	8A	8A			
KAPOHO LANDING 93.5	A 3369	02	PUNA	2	19 30	154 52	290		VAR			
KAWAINUI LOWER 193	A 3770	01	HAMAKUA	1	20 05	155 39	1080		WI			HONOKAA SUGAR CO PUNA SUGAR CO KAU SUGAR COMPANY, INC MRS LILAH MEIER STATE DIV OF FORESTRY STATE DIV OF FORESTRY MAUNA KEA SUGAR CO. K. LYMAN BONO HONOKAA SUGAR CO STANDARD OIL CO OF CAL
KEAAU 92	3872	02	PUNA	2	19 38	155 02	285	8A	8A			
KEAIIWA CAMP 22.1	3925	03	KAU	3	19 14	155 29	1700			C		
KEALAKEUA 2 28.7	3980	04	S KONA	4	19 30	155 55	1450	8A	8A			HONOKAA SUGAR CO PUNA SUGAR CO KAU SUGAR COMPANY, INC MRS LILAH MEIER STATE DIV OF FORESTRY STATE DIV OF FORESTRY MAUNA KEA SUGAR CO. K. LYMAN BONO HONOKAA SUGAR CO STANDARD OIL CO OF CAL
KEANAKOLU CAMP 124.2	4098	02	HAMAKUA	2	19 55	155 21	5280			C		
KIOLAKAA A & F 6	A 4625	03	KAU	3	19 04	155 38	1925		MO			
KIPA 89.2	A 4632	02	S HILO	2	19 44	155 09	1490		WI			HONOKAA SUGAR CO PUNA SUGAR CO KAU SUGAR COMPANY, INC MRS LILAH MEIER STATE DIV OF FORESTRY STATE DIV OF FORESTRY MAUNA KEA SUGAR CO. K. LYMAN BONO HONOKAA SUGAR CO STANDARD OIL CO OF CAL
KOHALA MISSION 175.1	4680	01	N KOHALA	1	20 14	155 48	537	7A	7A			
KOIAWE LOWER 196	A 4685	01	HAMAKUA	1	20 05	155 38	720		WI			
KONA (KAILUA) 68.3	A 4764	04	N KONA	4	19 39	156 00	30	8A	8A	C		
KONA VILLAGE 93.8	4765	04	N KONA	4	19 50	155 59	20		8A			KONA VILLAGE RESORT HTL LAUPAHOEHOE SUGAR CO HONOKAA SUGAR CO HONOKAA SUGAR CO HONOKAA SUGAR CO ST DEPT OF SOCIAL SER MAUNA LOA OBS. ST DEPT OF SOCIAL SER STATE DEPT OF L&N RES KONA EXPERIMENT STATION STATE DIV OF PARKS
KUKAIAU 222	4815	01	HAMAKUA	1	20 02	155 21	840		6A			
KUKUIHALE HIC 199	4928	01	HAMAKUA	1	20 07	155 35	980		6A			
KUKUIHALE MILL 206	A 4938	01	HAMAKUA	1	20 08	155 34	300		6A			HONOKAA SUGAR CO ST DEPT OF SOCIAL SER MAUNA LOA OBS. ST DEPT OF SOCIAL SER STATE DEPT OF L&N RES KONA EXPERIMENT STATION STATE DIV OF PARKS
KULANI CAMP 79	5011	02	S HILO	2	19 33	155 18	5170	8A	8A			
KULANI MAUKA 76	A 5018	05	N HILO	5	19 35	155 27	8300		VAR			
KULANI SCHOOL SITE 78	A 5021	02	S HILO	2	19 35	155 20	5735		WI			HONOKAA SUGAR CO STANDARD OIL CO OF CAL
LALAMILLO FLD OFF 191.1	5260	01	S KOHALA	1	20 01	155 41	2615			C		
LANIHAU 68.2	5330	04	N KONA	4	19 40	155 58	1530		7A			
LAVA TREE PARK 66.1	5460	02	PUNA	2	19 29	154 54	650			C		
MAKAHALAU 103	5761	02	HAWAII	1	19 59	155 33	3820		6A			PARKER RANCH STATE DIVISION OF PARKS MAUNA KEA OBSERVATORY MAUNA LOA OBSERVATORY CAPT COOK CATTLE CO KAHUA RANCH PARKER RCH-KAPAPALA DIV PUNA SUGAR CO KAU SUGAR COMPANY KONA EXPERIMENT STA
MANUKA 2	A 6134	03	KAU	3	19 07	155 50	1760		WI			
MAUNA KEA OBS 111.2	6183	02	HAWAII	2	19 49	155 28	3770		7P			
MAUNA LOA SLOPE OBS	6198	05	HAMAKUA	5	19 32	155 35	1150	9A	9A			PARKER RANCH STATE DIVISION OF PARKS MAUNA KEA OBSERVATORY MAUNA LOA OBSERVATORY CAPT COOK CATTLE CO KAHUA RANCH PARKER RCH-KAPAPALA DIV PUNA SUGAR CO KAU SUGAR COMPANY KONA EXPERIMENT STA
MIDDLE HOLUALOA 68.1	A 6268	04	N KONA	4	19 37	155 58	500		7A			
MIDDLE PEN 147.1	A 6270	01	N KOHALA	1	20 06	155 50	1380		VAR			
MORULA 18	A 6407	03	KAU	3	19 11	155 30	600					PARKER RCH-KAPAPALA DIV PUNA SUGAR CO KAU SUGAR COMPANY KONA EXPERIMENT STA
MOUNTAIN VIEW 91	6552	02	PUNA	2	19 33	155 07	1530	6A	6A			
NAALEHU 14	A 6588	03	KAU	3	19 04	155 35	673	8A	8A			
NAPOOPOO 28	A 6697	04	S KONA	4	19 28	155 55	395		7A			
OOKALA 223	7131	02	N HILO	2	20 01	155 17	430	7A	7A			LAUPAHOEHOE SUGAR CO MRS LORMA TRUMAN
OPIHIHALE 2 24.1	7166	04	S KONA	4	19 16	155 53	1270	7A	7A			

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								TEMP.	PRECIP.	EVAP.	SPECIAL (SEE NOTES)	
ISLAND OF HAWAII												
ORCHIO LAND EST 91.5	A	7185	02	PUNA	2 19 34	155 00	445		VAR			BOARD OF WATER SUPPLY HONOKAA SUGAR COMPANY LAUPAHOEHOE SUGAR CO KAU SUGAR COMPANY, INC PUAN SUGAR COMPANY PARKER RCH-KAPAPALA DIV MAUNA KEA SUGAR CO MAUNA KEA SUGAR CO STATE DIV OF FORESTRY STATE DIVISION OF PARKS
PAUHAU 217		7204	01	HAMAKUA	1 20 05	155 26	415		8A		C	
PAUULO 221		7312	01	HAMAKUA	1 20 03	155 22	800		7A			
PAHALA 21	A	7421	03	KAU	3 19 12	155 29	870	8A	6A			
PAHOA 65		7457	02	PUNA	2 19 30	154 57	670		6A			
PAKAO 37	A	7643	03	KAU	3 19 22	155 28	5000		MO			
PAPAIOU 144.1		7711	02	S HILO	2 19 47	155 06	260		7A			
PAPAIOU MAUKA 140.1		7721	02	S HILO	2 19 47	155 08	1270		7A			
PIIHONUA 89	A	8051	02	S HILO	2 19 44	155 10	1730		MO			
POHAKULOA 107	A	8063	02	HAMAKUA	2 19 45	155 32	6511		WI		C	
PUU KIE 120	A	8393	01	HAMAKUA	1 19 54	155 24	7750		MO			CLOSED 12/31/76 SUPT PUU HEIAU-NHS CLOSED 12/31/76 W.H. GREENWELL RANCH CLOSED 12/31/76 PUU WAAWAA RANCH CO BOARD OF WTR SUPPLY MRS CAROLYN CARLSON PARKER RCH-KAPAPALA DIV CLOSED 12/31/76
PUUKOHOLA HEIAU 98.1		8422	05	HAWAII	5 20 02	155 50	140	8A	8A			
PUU LAU 102.1	A	8452	05	HAMAKUA	5 19 50	155 36	7440		MO			
PUU LEHUA 73	A	8460	04	N KONA	4 19 34	155 49	4880		MO			
PUU MALI 113	A	8515	01	HAMAKUA	1 19 55	155 26	6960		MO			
PUU WAAWAA 94.1	A	8555	05	N KONA	5 19 47	155 51	2520		7A		C	
SADDLE ROAD 1 84	A	8590	02	S HILO	2 19 42	155 12	2340		WM			
SOUTH KONA 2.31		8650	03	HAWAII	3 19 06	155 45	2650	8A	8A			
SOUTH POINT CORRAL 3	A	8675	03	KAU	3 18 57	155 41	500		WI			
UMIKOA 118		8780	01	HAMAKUA	1 19 59	155 23	3420		7A			
UPOLU POINT USCG 159.2		8830	01	N KOHALA	1 20 15	155 53	61	8A	8A			U S COAST GUARD SHINICHI KANESHIRO 80ISE CASCADES WA CONST KAHUA RANCH COMPANY
WAIKOA SCD 88.2		9025	02	S HILO	2 19 40	155 08	1050		7A			
WAIKALO-8015 CAS 95.8		9142	04	HAWAII	5 19 56	155 48	900		8A			
WAIKANONOULA 178.6		9350	01	N KOHALA	1 20 08	155 47	3830				C	
CLOSED STATIONS												
ISLAND OF OAHU												
HONOLULU SUBSTA 704	R	1924	02	HONOLULU	2 21 19	157 52	12	M10	M10		C	CLOSED 12/21/76
ISLAND OF HAWAII												
HALEPIULA 117	A	1060	01	HAMAKUA	1 19 56	155 24	5770		MO			CLOSED 12/31/76
PUU KIE 120	A	8393	01	HAMAKUA	1 19 54	155 24	7750		MO			CLOSED 12/31/76
PUU LAU 102.1	A	8452	05	HAMAKUA	5 19 50	155 36	7440		MO			CLOSED 12/31/76
PUU MALI 113	A	8515	01	HAMAKUA	1 19 55	155 26	6960		MO			CLOSED 12/31/76
UMIKOA 118		8780	01	HAMAKUA	1 19 59	155 23	3420		7A			CLOSED 12/31/76
NEW STATIONS												
ISLAND OF OAHU												
PUU MANAWAHUA 725.6		8500	03	OAHU	3 21 23	158 05	2080		8A			HUGH HAMILTON

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								TEMP.	PRECIP.	EVAP.	SPECIAL (SEE NOTES)	
PACIFIC												
EAST OF 180TH MERIDIAN												
CANTON ISLAND	4101	02	PHOENIX IS		2 46N	171 43W	8	9A	9A			ITT/FEDERAL ELEC CORP
FAGA ALU RESERVOIR	4135	03	AMER SAMOA		14 18S	170 42W	820		8A			PUBLIC WORKS
FALEASAO VILLAGE	4248	03	TA'U'AMAN		14 14S	169 31W	16		8A			SOLOMULI MALU'IA
JOHNSTON WSO AP	R 4320	01	LINE ISLANDS		16 44N	169 31W	7	M10	M10	7A	J	NATL WEATHER SERVICE
LEONE	4397	03	TUTUILA		14 21S	170 47W	20	6P	6P			ST THERESA SCHOOL
FRENCH FRIGATE SHOALS	4401	07			23 52N	166 17W	6	8P	8A			U S COAST GUARD
MIDWAY SAND ISLAND	4490	07			28 13N	177 21W	10	M10	M10			U S NAVY
PAGO PAGO WSO AP	R 4690	03	AMER SAMOA		14 20S	170 43W	12	M10	M10		J	NATL WEATHER SERVICE
SWAINS ISLAND	4822	01	AMER SAMOA		11 03S	171 05W	6	M10	M10			AMERICAN SAMOA RAO STA
WESTERN PACIFIC ISL. NORTH OF 12 N												
<ANDERSEN AFB GUAM	4025	03	MARIANNA IS		13 35N	144 55E	624	M10	M10			AIR WEATHER SERVICE
<CLARK AFB LUZON	4100	06	PHILIPPINE I		15 11N	120 33E	475	M10	M10			U S AIR FORCE
GUAM NAS	4226	03	MARIANNA IS		13 29N	144 48E	254	M10	M10			U S NAVY
GUAM WSMO	R 4229	03	MARIANNA IS		13 33N	144 50E	361	10A	10A	10A	J	NATL WEATHER SERVICE
MANGILAO	4468	03	GUAM		13 27N	144 49E	60		7A			GUAM AGRICULTURAL STA
ROTA	4800	03	MARIANNA IS		14 08N	145 09E	47		8A			OIST ADMINISTRATOR
SAIPAN LORAN	4860	03	MARIANNA IS		15 08N	145 42E	9	10A	10A			U S C G LORAN STATION
WAKE WSO AP	R 4901	01			19 17N	166 39E	11	M10	M10		J	NATL WEATHER SERVICE
CAROLINE AND MARSHALL ISLANDS												
ANGUAR	4030	02	CAROLINE IS		6 55N	134 09E	15		8A			USCG LORAN STATION
ENIWETAK	4165	01	MARSHALL IS.		11 21N	162 21E	10	M10	M10			U S COAST GUARD
FALALOP I. ULITHI	4185	02	CAROLINE IS		10 02N	139 48E	6	10P	10P			PRINCIPAL-ULITHI H-SCH
KAPINGAMARANGI ATOLL	4325	01	PONAPE		1 05N	154 48E	10	M10	M10			ERSIN HAQUET
KOROR WSO	R 4351	02	CAROLINE IS		7 20N	134 29E	94	M10	M10		J	NATL WEATHER SERVICE
KWAJALEIN MISSILE RGN	R 4375	01	MARSHALL IS		8 44N	167 44E	7	12M	12M		J	KMR WEATHER SERVICE
LELE I. KUSAIE	4395	02	CAROLINE IS		5 20N	163 02E	7	M10	M10			JULIAN E ROBERT
MAJURO WSO AP	R 4460	02	MARSHALL IS		7 05N	171 23E	10	M10	M10		J	NATL WEATHER SERVICE
METALANIM	4482	02	PONAPE		6 51N	158 19E	30	8A	8A			REV E. A. SOUCIE
MOKIL ATOLL	4490	02	PONAPE OIST.		6 41N	159 47E	27		SP			ESHIAM BEN
NGASANG.BABELTHUAP	4580	01	PALAU ISLAND		7 38N	134 39E	10		8A			BETHANIA SEMINARY
PONAPE WSO	R 4751	02	CAROLINE IS		6 58N	158 13E	123	M10	M10		J	NATL WEATHER SERVICE
SATAWAN ATOLL	4814	02	CAROLINE IS		5 20N	153 44E	9	M10	M10			ANTER EKO
TRUK. MOEN I. WSO AP	R 4851	02	CAROLINE IS		7 28N	151 51E	5	M10	M10		J	NATL WEATHER SERVICE
WOLEAI ATOLL	4911	01	CAROLINE IS		7 23N	143 55E	7	M10	M10			HASUGULIMAR/HALEYEMAI
YAP WSO AP	R 4951	02	CAROLINE IS		9 29N	138 05E	44	M10	M10		J	NATL WEATHER SERVICE

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Additional information regarding the climates of Hawaii and the Pacific Ocean Area may be obtained by writing to the National Climatic Center, Federal Building, Asheville, N.C. 28801, or to any National Weather Service Office near you. Additional precipitation data for Hawaii are contained in "HOURLY PRECIPITATION DATA HAWAII."

**DIMENSIONAL UNITS:** Unless otherwise indicated, dimensional units used in this bulletin are: Temperature in °F., precipitation and evaporation in inches, and wind movement in miles. In "Supplemental Data" table directions entered in figures are tens of degrees. Resultant wind is the vector sum of wind directions and speeds divided by the number of observations.

**OBSERVATION TIME:** Data in the "Monthly Extremes," "Daily Precipitation" table, "Daily Temperature" table, and "Evaporation and Wind" table are for the 24 hours ending at time of observation unless indicated otherwise by reference letters in the Station Index. The Station Index shows observation time in local standard time.

**EVAPORATION** is measured in the standard Weather Service-type pan of 4-foot diameter unless otherwise noted below in the Evaporation and Wind table. Max and Min values in the Evaporation and Wind table are extremes of temperature of water in pan as recorded during 24 hours ending at time of observation. Wind is the total wind movement in miles over the evaporation pan as determined by a continuous anemometer recorder located 6-8 inches above the pan.

**NORMALS** for all stations are climatological standard normals based on the period 1941-1970.

**STATION NAMES:** Hawaii state key numbers are included following station names in the several tables.

**LATE REPORTS AND CORRECTIONS** will be carried only in the June and December issues of this bulletin.

**INTERPOLATED VALUES** for monthly precipitation totals may be found in the annual issue of this publication.

**IN THE DATA TABLES THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING:**

- No record in the "Supplemental Data" table, "Daily Precipitation" table, "Evaporation and Wind" table, and the Station Index.
- No record in the "Monthly Summarized Data" table and the "Daily Temperature" table is indicated by no entry.
- And also on an earlier date or dates.
- Highest observed one minute windspeed. This station is not equipped with an instrument to measure fastest mile data.
- \* Amount included in following measurement, time distribution unknown.
- < Maximum and minimum temperatures are the highest and lowest hourly readings for each day.
- | Extreme occurred at station with incomplete data which may have been exceeded.
- A The letter "A" shown following station name in "Monthly Summarized Data" table, "Daily Precipitation" table, and "Station Index," indicates amount carried in the "Total" column is for the period from last measurement of a preceding month through the last measurement of the current month. See "Daily Precipitation" table of this and previous bulletins for dates of measurement. Where gages are read only once monthly, measurements made on the first of a month are credited to the last day of the preceding month.
- B Adjusted to a full month.
- M One or more days of record missing; if average value is entered, less than 10 days record is missing. See "Daily Temperature" table for detailed daily record.
- R Amounts from recording gage.
- T Trace, an amount too small to measure.
- V Includes total for previous month.

**IN THE STATION INDEX THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING:**

- AR Observation made after rain.
- C In Special Column of Station Index indicates Recording Rain Gage Station. Hourly Precipitation values are processed for special purposes, and are published later in the "Hourly Precipitation Data" bulletin. If daily amounts are published in "Monthly Summarized Data" bulletin they are from a separate non-recording gage, except where indicated by reference 'R'. Such amounts may differ from amounts published from the recording gage in the "Hourly Precipitation Data" bulletin.
- J "Supplemental Data" table.
- MO Gage read once monthly; usually on the last day.
- OC Gage readings at periods varying from a few weeks to several months.
- S Storage Precipitation Station. Precipitation measurements, made at irregular intervals, are published in the December issue, or as late reports in the June issue of this publication.
- SS Observation time is near sunset.
- VAR Observation time is variable.
- WI Gage read weekly or irregularly only.
- WM Gage read weekly and last day of month.
- # Thermometers are generally exposed in a shelter located a few feet above sod-covered ground; however, this reference indicates that the thermometers are exposed in a shelter located on the roof of a building.
- \* DRAINAGE CODE: KAUAI: 1-NORTHERN 2-SOUTHEASTERN 3-SOUTHWESTERN OAHU: 1-WINDWARD KOOLAU 2-HONOLULU 3-SOUTH CENTRAL 4-WESTERN 5-NORTH CENTRAL MOLOKAI: 1-(NO INTRA-ISLAND DIVISIONS) LANAI: 1-(NO INTRA-ISLAND DIVISIONS) MAUI: 1-NORTHEASTERN 2-SOUTHERN 3-CENTRAL 4-WESTERN HAWAII: 1-NORTHERN 2-EASTERN 3-SOUTHERN 4-WESTERN 5-CENTRAL

Stations appearing in the tables with no data were either missing or received too late to be included in this issue.

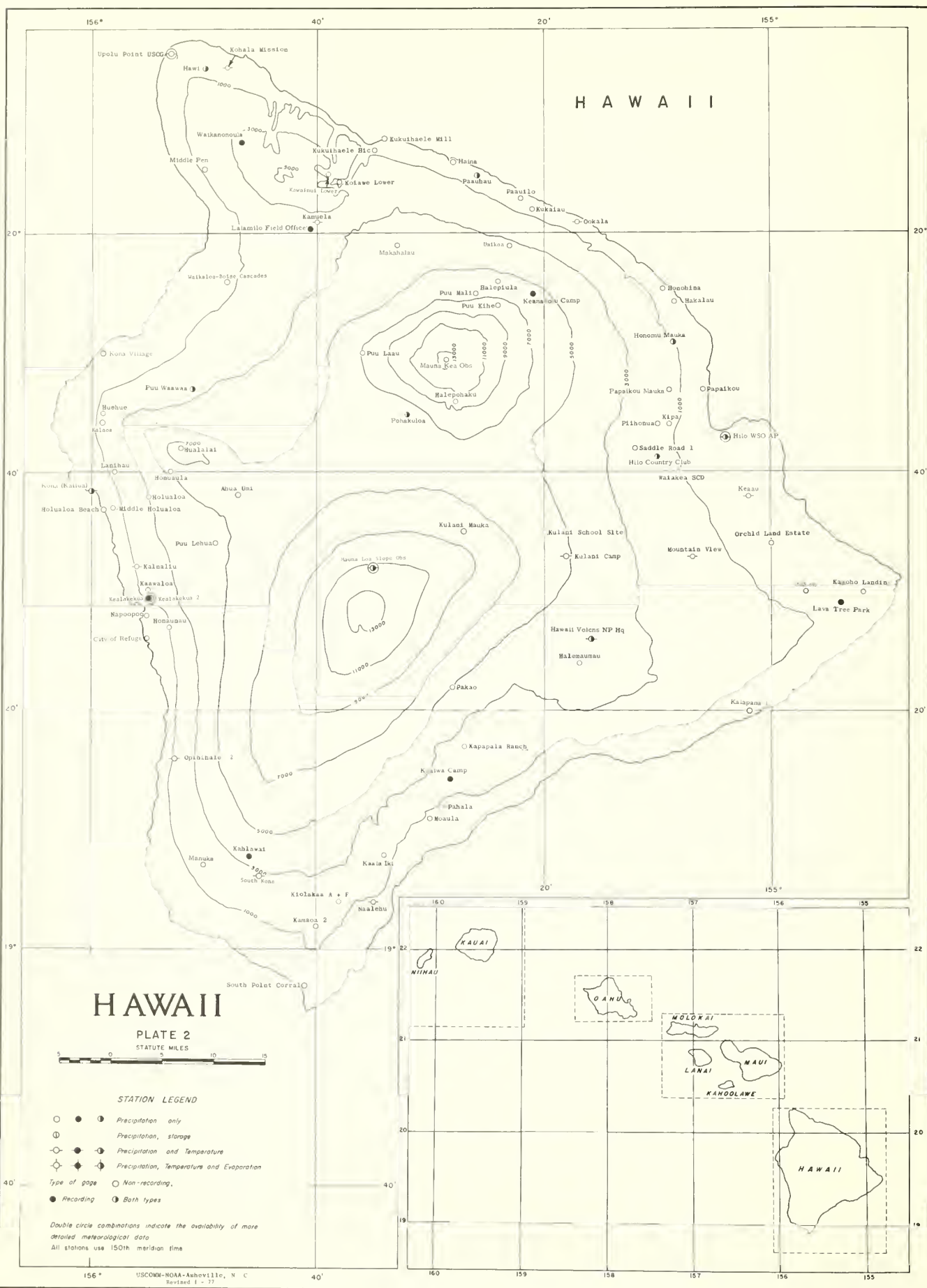
The Pacific includes stations in the Trust Territory of the Pacific Islands, Territory of Guam, American Samoa, and other scattered islands and atolls.

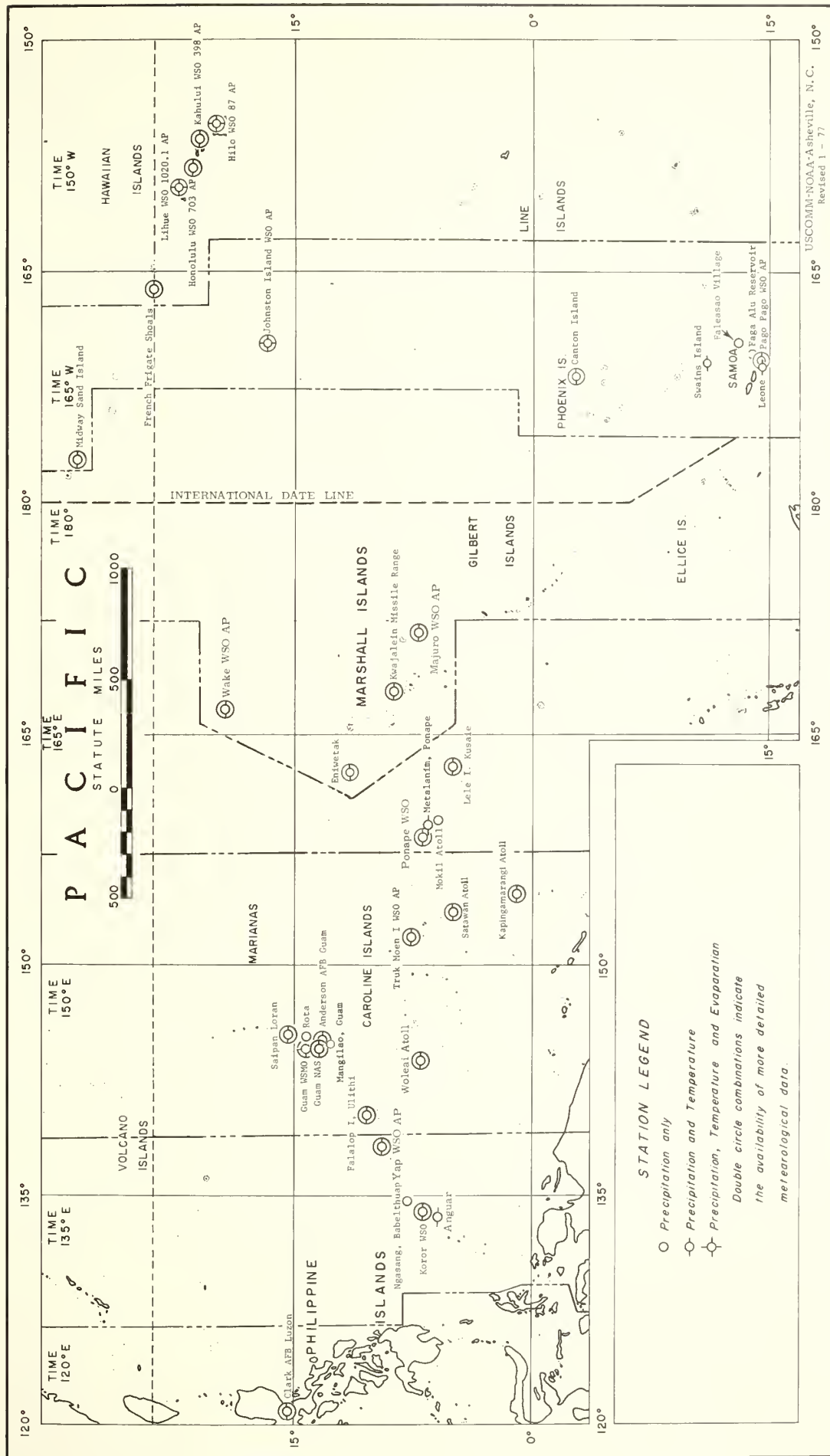
General weather conditions in the U.S. for each month are described in the CLIMATOLOGICAL DATA NATIONAL SUMMARY and STORM DATA.

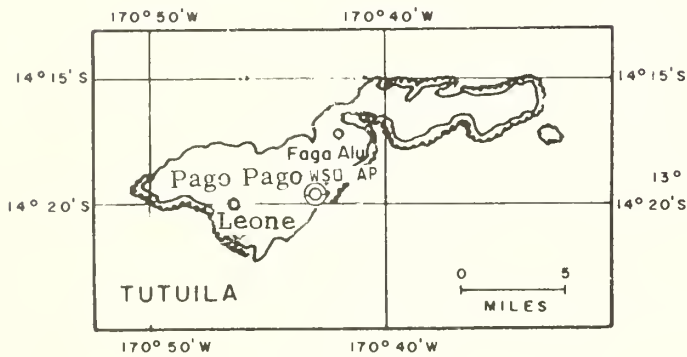
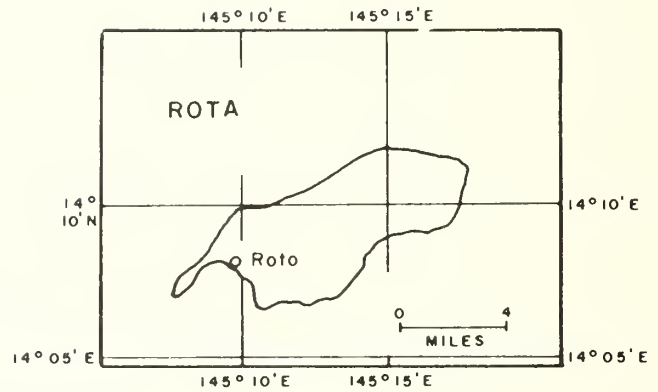
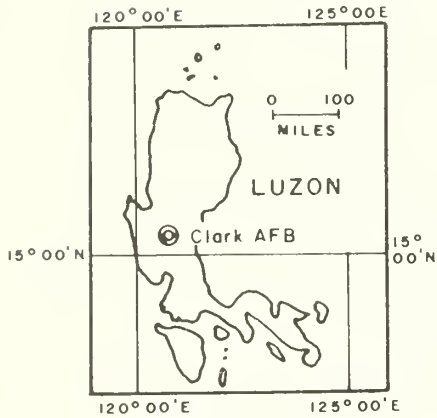
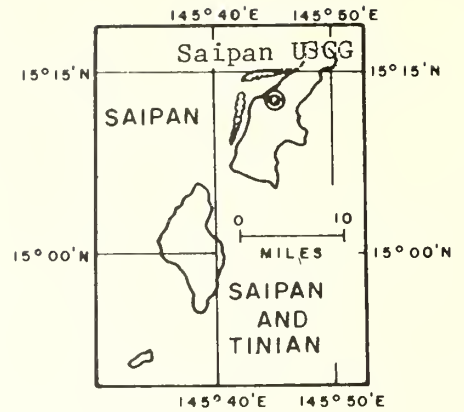
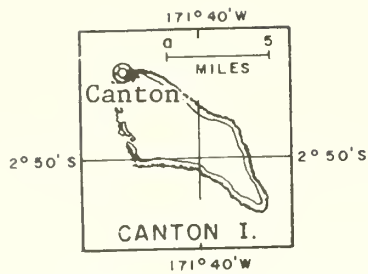
Information concerning the history of changes in locations, elevations, exposure, etc., of substations through 1957 may be found in the publication "Substation History" for this State, price 40 cents. Similar information for regular National Weather Service Offices may be found in the latest annual issue of Local Climatological Data, price 20 cents. These publications may be obtained from the National Climatic Center at the address shown above.

Subscription Price: \$5.10 a year for each section including annual summary; \$5.55 additional for foreign mailing; 40¢ single copy; 30¢ annual summary. Make checks payable to Department of Commerce, NOAA; send payments and orders to: National Climatic Center, Federal Building, Asheville, N. C. 28801. Attn: Publications.

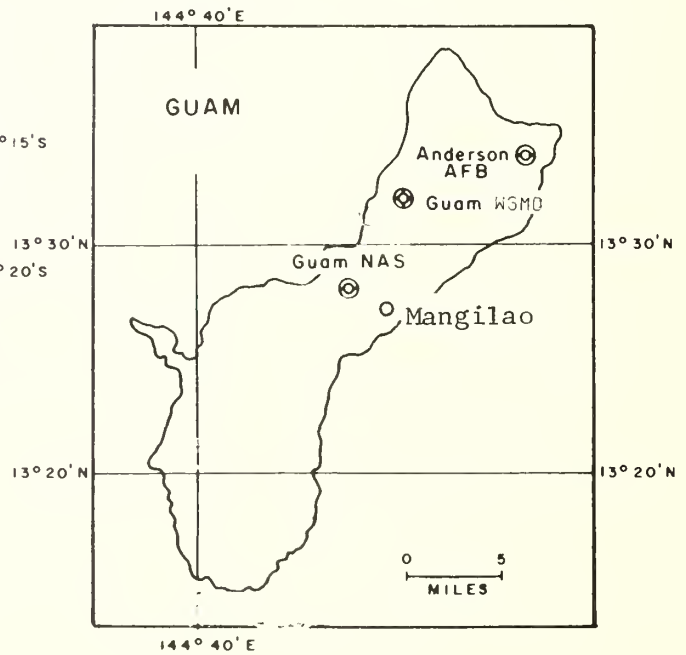




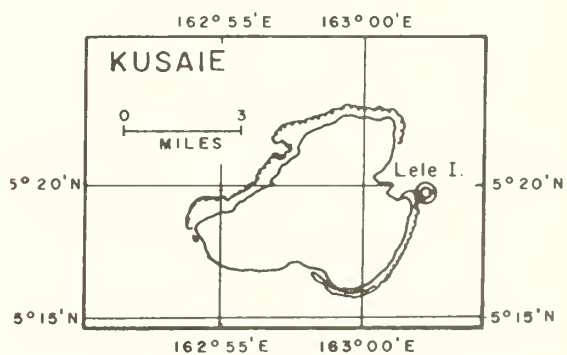
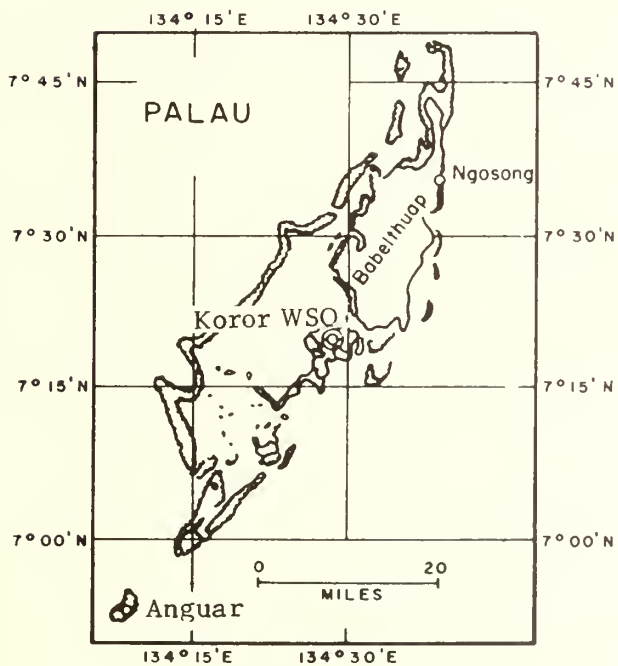
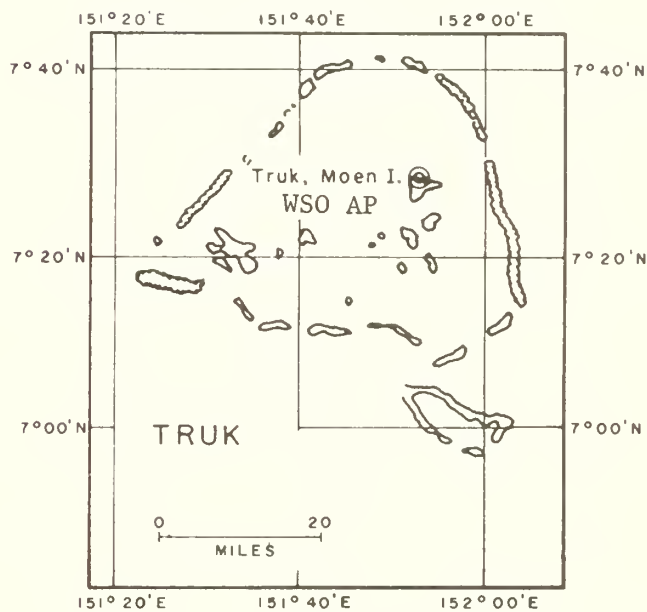
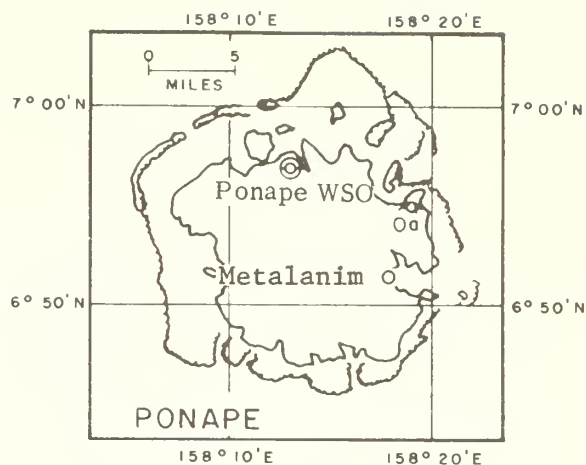
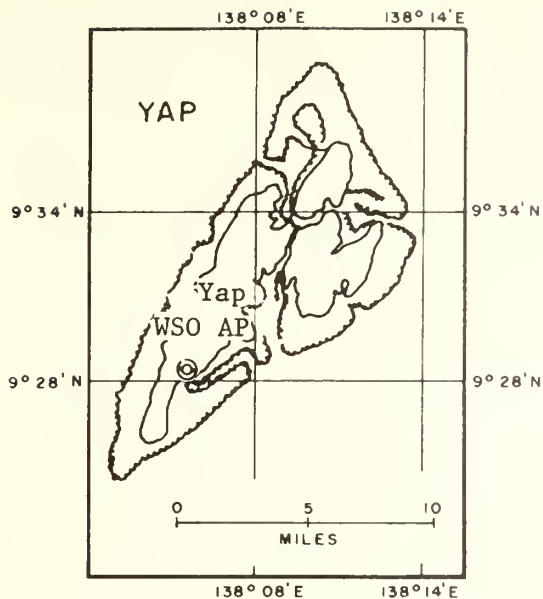




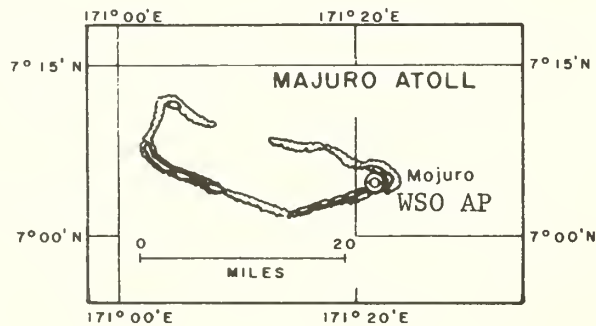
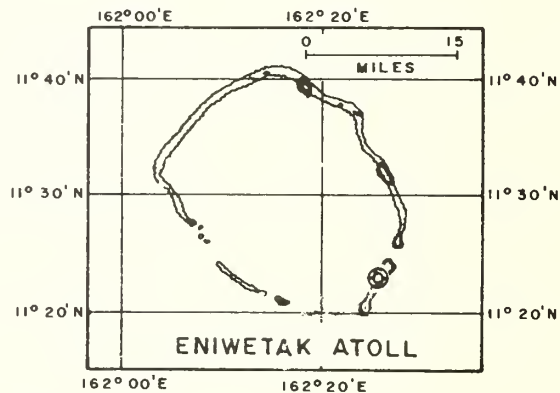
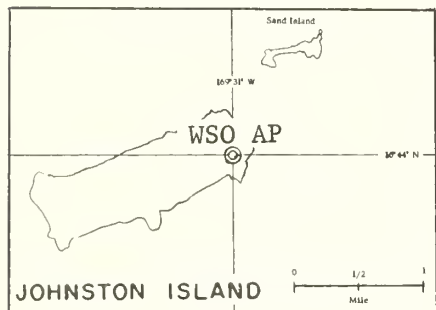
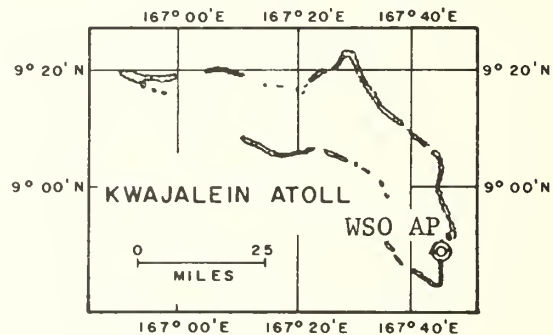
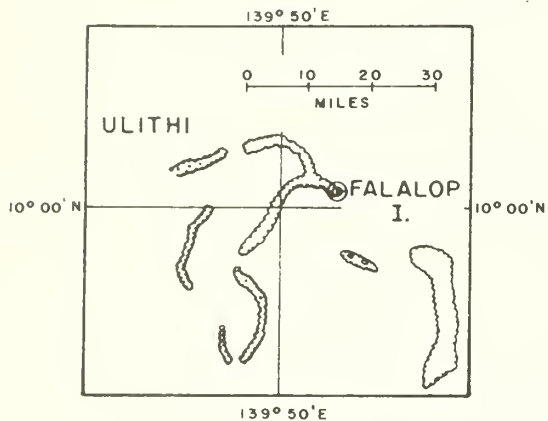
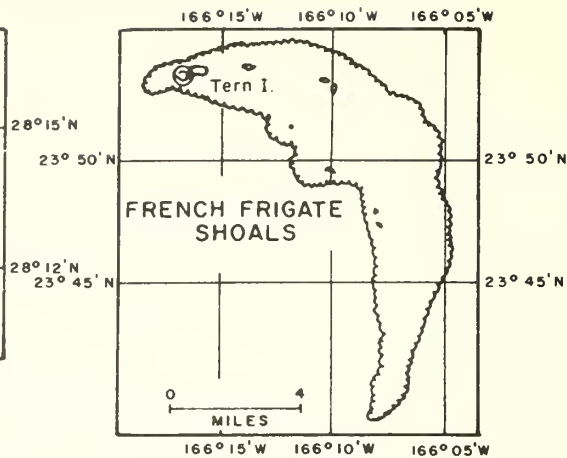
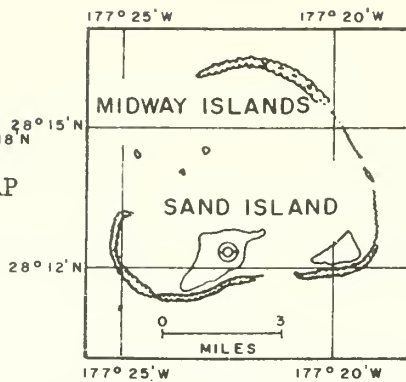
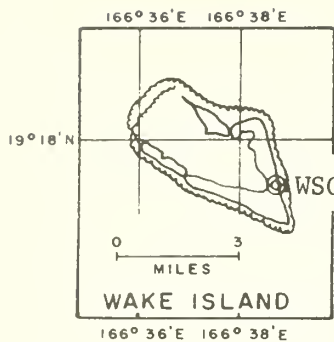
Reef







— Reef





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**THIRD CLASS**





## MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

HAWAII AND PACIFIC  
FEBRUARY 1977

STATION		TEMPERATURE										PRECIPITATION												
		AVERAGE MAXIMUM	AVERAGE MINIMUM	AVERAGE	DEPARTURE FROM NORMAL	HIGHEST	DATE	LOWEST	DATE	DEGREE DAYS	NO. OF DAYS				TOTAL	DEPARTURE FROM NORMAL	GREATEST DAY	DATE	SNOW, SLEET		NO. OF DAYS			
											MAX.	MIN.	TOTAL	GREATEST DAY					TOTAL	MAX. DEPTH ON GROUND	DATE	1.00 OR MORE	.50 OR MORE	1.00 OR MORE
HAWAII																								
ISLAND OF KAUAI																								
ANAHOLA 1114		A												1.81		.40	15		0				0	0
KANALOHULU 1075		A	67.3	47.3	57.3		72	25	42	17+	0	0	0	4.04		1.42	15	.0	0		7	2	2	
KAPAA STABLES 1104		A												3.80		1.30	15	.0	0			4	1	
KILRUEA POINT 1133			81.0	68.3	74.7		87	11	65	15	0	0	0	1.58		.35	15	.0	0		6	0	0	
KOLAA 936														4.85		1.26	16	.0	0		8	4	1	
LIHUE WSO 1020.1 AP		//R	78.3	67.1	72.7	1.5	81	10	62	19+	0	0	0	3.19	- 1.09	.93	14	.0	0		7	2	0	
MANA 1026			83.9	63.3	73.6	2.8	86	27+	59	2+	0	0	0	.76	- 1.80	.23	1	.0	0		3	0	0	
N. WAILUA DITCH 1051		A												9.99				.0	0					
PH. WAINIHA 1115														11.77	- .72	3.27	15	.0	0					
PUEHU RIDGE 1040														.98	- 2.74	.36	1	.0	0		4	0	0	
WAIHAWA 930		A												.89	- 2.70			.0	0					
WAIHAI LOWER 1054			74.4	59.1	66.8		78	9+	53	18	0	0	0	5.49	- 3.32	1.04	15	.0	0		11	6	1	
WAIMER 947														.57	- 2.38	.19	15+	.0	0		3	0	0	
ISLAND				69.0										3.82				.0						
ISLAND OF OAHU																								
ALOHA STADIUM HALAWA			81.3M	65.7M	73.5M		85	22+	62	9	0	0	0	.56		.29	1	.0	0		2	0	0	
B Y U LAIE 903.1			81.0	65.3	73.2		83	21	60	9	0	0	0	1.53		.35	28	.0	0		5	0	0	
HONOLULU OBSERV 702.2														.07		.06	1	.0	0		0	0	0	
NUUANU RES 4 783		R	83.5	67.6	75.6	3.3	87	21+	60	18+	0	0	0	.32	- 2.14	.24	1	.0	0		1	0	0	
KANEHE MAUKA 781			78.8	68.0	73.4	2.4	83	20+	62	17	0	0	0	2.88	- 4.03	.64	15	.0	0		8	1	0	
KOOLAU OAM 833		A												6.81		1.40	28	.0	0		10	8	1	
HANDA LYON ARBORETUM			79.8	64.1	72.0		84	20+	59	19+	0	0	0	12.48		4.72	24	.0	0		12	7	2	
NUUANU RES 4 783														6.28		1.60	23	.0	0		14	5	1	
OPAEULA 870		A	83.0	61.9	72.5	6.1	88	17	57	18	0	0	0	3.33		.80	24	.0	0					
PALOLO VALLEY 718		R												11.16	1.14	4.40	23	.0	0		11	5	2	
WAIHAWA OAM 863		A												1.67				.0	0					
WAIHAE E 837		A												7.51		2.05	16	.0	0					
WAIHAE E 896.3			79.4M	66.0M	72.7M		83	21	61	9	0	0	0	1.83		.99	28	.0	0		4	1	0	
WAIHALUA 847		A	81.3	61.4	71.4	1.7	85	22+	56	17	0	0	0	1.23	- 2.42	.41	1	.0	0			0	0	
WAIKIKI 717.2			83.4	66.1	74.8		87	3	60	18+	0	0	0	.78		.40	16	.0	0		2	0	0	
WAIMANALO EXP FARM			79.8	65.7	72.8		84	13+	60	18+	0	0	0	1.67		.40	24	.0	0		8	0	0	
WAIPIHU 750		A												.00		.00		.0	0		0	0	0	
ISLAND				73.2										3.54				.0						
ISLAND OF MOLOKAI																								
KUALAPUU 534		A												2.66		1.22	16	.0	0			1	1	
MAUNALO A 511		A												2.24		.57	16	.0	0			1	0	
MOLOKAI AP 524			81.2M	64.5M	72.9M		85	15	59	14	0	0	0	2.26		.50	16	.0	0		6	1	0	
ISLAND				72.9										2.39				.0						
ISLAND OF LANAI																								
LANAI CITY 672		A	M	M	M		81	21			0	0	0	.76	- 2.46	.27	16	.0	0			0	0	
ISLAND														.76				.0						
ISLAND OF MAUI																								
HALEAKALA B E S 434		A												5.23		1.54	28	.0	0		5	4	2	
HALEAKALA RS 338			64.4	42.4	53.4	3.1	73	21	37	12+	0	0	0	5.29	- 1.45	2.00	24	.0	0		5	4	2	
HANA AIRPORT 355			80.6M	65.7M	73.2M		87	1	59	11	0	0	0	4.25		.68	28+	.0	0		9	5	0	
HONOKOHUA 493		A												3.05		.85	28	.0	0					
KAANAPALI AP 453.1			79.9	64.5	72.2		83	5	60	9	0	0	0	.53		.20	16	.0	0		2	0	0	
KAHULUI WSO 398 AP		R	82.4	64.6	73.5	1.9	86	22+	59	18	0	0	0	.92	- 1.72	.33	15	.0	0		4	0	0	
KAILUA 446			81.3	63.3M	70.4M	2.5	81	3+	59	18	0	0	0	9.00	- 1.29			.0	0					
KERANAE 346		A												16.00				.0	0					
KIPAHULU 258														5.59	- 2.08	1.60	24	.0	0		11	5	1	
KULA SANATORIUM 267			71.6	55.6	63.6	2.7	78	1	51	23	0	0	0	1.00	- 2.45	.60	16	.0	0		2	1	0	
LAHAINA 361			84.7	65.1	74.9	3.4	87	27+	62	13	0	0	0	.06	- 1.59	.04	16	.0	0			0	0	
PAIA 406														1.72	- 1.80	.46	28	.0	0			0	0	
WAILUKU 386		A	80.4M	66.0M	73.2M	1.9	83	14+	62	21+	0	0	0	.52	- 3.29	.21	16	.0	0		1	0	0	
ISLAND				69.3										4.09				.0						
ISLAND OF HAWAII																								
HAWAII VOLCNS NP HQ 54		R	68.1	49.2	58.7	1.1	74	21	35	15	0	0	0	7.79	- 2.44	3.49	27	.0	0		10	2	2	
HILO WSO 87 AP		A	83.5	64.5	74.0	3.0	88	1	59	19	0	0	0	9.56	- 3.34	3.84	27	.0	0		9	4	3	
HUAEUE 92.1														.98		.28	24	.0	0		5	0	0	
KAINALIU 73.2			77.1	58.5	67.8		80	11	55	20	0	0	0	.62	- 2.26	.19	16	.0	0		3	0	0	
KAPOHO BEACH 93.11														5.34		1.24	3	.0	0			3	2	
KEAAU 92			80.4	61.5	71.0		86	11+	51	1	0	0	0	9.25		3.43	27	.0	0		8	4	3	

SEE REFERENCE NOTES FOLLOWING STATION INDEX

# MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

HAWAII AND PACIFIC  
FEBRUARY 1977

STATION		TEMPERATURE											PRECIPITATION																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
		AVERAGE MAXIMUM	AVERAGE MINIMUM	AVERAGE	DEPARTURE FROM NORMAL	HIGHEST	DATE	LOWEST	DATE	DEGREE DAYS	NO. OF DAYS					TOTAL	DEPARTURE FROM NORMAL	GREATEST DAY	DATE	SNOW, SLEET			NO. OF DAYS																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
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SEE REFERENCE NOTES FOLLOWING STATION INDEX

## MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

HAWAII AND PACIFIC  
FEBRUARY 1977

STATION		TEMPERATURE										PRECIPITATION												
		AVERAGE MAXIMUM	AVERAGE MINIMUM	AVERAGE	DEPARTURE FROM NORMAL	HIGHEST	DATE	LOWEST	DATE	DEGREE DAYS	NO. OF DAYS				TOTAL	DEPARTURE FROM NORMAL	GREATEST DAY	DATE	SNOW, SLEET		NO. OF DAYS			
											MAX.		MIN.						TOTAL	MAX. DEPTH ON GROUND	DATE	-10 OR MORE	-50 OR MORE	1.00 OR MORE
											34° OR ABOVE	32° OR BELOW	32° OR BELOW	30° OR BELOW										
PACIFIC																								
* * * * *																								
EAST OF 180TH MERIDIAN																								
CANTON ISLAND		89.6H	79.8H	84.7H		91	12	70	4		16	0	0	0	3.18		1.22	2	.0	0		2	1	
FAGA ALU RESERVOIR															10.37		2.11	12	.0	0		15	9	
FALEASAO VILLAGE		81.3	74.3	77.8	1.3	83	1	70	4		0	0	0	0	.39	- 1.56	.09	20	.0	0		0	0	
JOHNSTON WSO AP		91.6				95	10				24	0	0	0	6.07		1.25	22	.0	0		14	4	
LEONE																								
FRENCH FRIGATE SHOALS		75.2	67.2	71.7	.9	82	21	63	28		0	0	0	0	2.19	- .72	1.09	28	.0	0		3	2	
MIDWAY SAND ISLAND																								
PAGO PAGO WSO AP		88.2	76.3	82.3	1.8	92	20	73	26		6	0	0	0	6.30	- 7.86	1.63	23	.0	0		10	3	
SWAINS ISLAND																								
* * * * *																								
WESTERN PACIFIC ISL. NORTH OF 12 N																								
ANDERSEN AFB GUAM		82.9	76.8	79.9	1.7	85	26	74	7		0	0	0	0	3.07	- .97	.72	7	.0	0		10	1	
CLARK AFB LUZON		87.0	70.6	78.8	.0	91	28	66	20		8	0	0	0	1	- .51	1	27	.0	0		0	0	
GUAM NAS		84.4	75.0	79.7	.3	86	19	72	6		0	0	0	0	1.95	- .77	.33	10	.0	0		8	0	
GUAM WSMO		83.5	70.4	77.0	-.3	85	28	62	4		0	0	0	0	3.01	- 1.25	.64	7	.0	0		10	1	
MANGILAO															2.25		.43	10	.0	0		7	0	
ROTA															2.69		1.16	10	.0	0		4	2	
SAIPAN LORAN																								
WAKE WSO AP		82.6	71.2	76.9	-.1	86	18	69	14		0	0	0	0	.87	- .34	.20	9	.0	0		3	0	
* * * * *																								
CAROLINE AND MARSHALL ISLANDS																								
ANGUAR															7.09	-.67	1.03	2	.0	0		13	7	
ENIWEATK		83.2	78.8	81.0		86	19	77	2		0	0	0	0	.65	- .85	.23	2	.0	0		1	0	
FALALOP I. ULITHI		84.8H	80.0H	82.4H	.0	96	15	75	1		1	0	0	0					.0	0				
KAPINGAMARANGI ATOLL		87.1H	74.5H	80.8H		90	3	70	23		2	0	0	0	25.72		3.00	23	.0	0		23	14	
KOROR WSO		86.9	75.5	81.2	.5	89	17	72	8		0	0	0	0	5.30	- 2.13	1.25	22	.0	0		12	3	
KWAJALEIN MISSILE RGN		86.8	77.7	82.3	.9	88	25	76	22		0	0	0	0	.04	- 2.31	.03	22	.0	0		0	0	
LELE I. KUSAIE		88.9	76.3	82.6	1.3	92	9	68	3		7	0	0	0	5.97	-14.14	1.49	20	.0	0		7	5	
MAJURO WSO AP		85.8	76.7	81.3	.1	88	28	74	14		0	0	0	0	.77	- 6.21	.24	14	.0	0		4	0	
METALANIM		86.3	79.4	82.9		89	4	73	26		0	0	0	0	1.99		.60	2	.0	0		5	2	
MOKIL ATOLL																								
NGASANG, BABELTHUAP															3.49		.74	19	.0	0		7	3	
PONAPE WSO		88.1	77.0	82.6	1.9	90	26	73	6		5	0	0	0	1.05	-10.39	.27	11	.0	0		4	0	
SATAWAN ATOLL																								
TAUK. MOEN I. WSO AP		85.8	77.3	81.6	.5	87	28	74	6		0	0	0	0	1.98	- 4.42	.55	12	.0	0		8	1	
WOLEAI ATOLL																								
YAP WSO AP		86.3	74.7	80.5	.0	87	28	72	5		0	0	0	0	2.18	- 3.23	.67	17	.0	0		7	1	

SEE REFERENCE NOTES FOLLOWING STATION INDEX

# DAILY PRECIPITATION

HAWAII AND PACIFIC

FEBRUARY 1977

STATION	TOTAL	DAY OF MONTH																																
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
HAWAII																																		
ISLAND OF KAUAI																																		
ANAHOLA 1114	A	1.81																																
BRIDGES 400 STA 985	A	1.65																																
EAST LAKE 934	A	3.52																																
ELELE 927	A	4.40																																
HALEA 1110	A	2.52																																
HALEMANAHO 1006	A	5.19																																
HUKIPU 945	A	5.50																																
ILILIULA INTAKE 1050	A	10.60																																
INTAKE WAIKANA PE 1006	A	18.00																																
KANALOHULU 1075	A	4.04																																
KANEA RESERVOIR 1092	A	8.73																																
KARAI STABLES 1104	A	2.24																																
KERALA 1112	A	2.91																																
KEKAHA 944	A	2.91																																
KILAEUA 1134	A	2.91																																
KILAEUA POINT 1133	A	1.58																																
KOLB 1033	A	1.87																																
KOLB 936	A	4.85																																
KOLB LN (PMA) 940.1	A	1.59																																
KOLB MAUKA 994	A	3.58																																
KUKUIULA 935	A	2.33																																
LIHUE VARIETY ST 10621	A	3.93																																
LIHUE 1020	A	3.64																																
LIHUE WSD 1020.1 AP	A	1.03																																
MAKALEI 965	A	1.03																																
MAKA 1026	A	4.22																																
MOHAI UPR CROSS 1083	A	1.67																																
MOLAI 1145	A	1.67																																
MOUNT MALEALE 1047	A	1.03																																
NIU RIDGE 1035	A	1.03																																
N WAILUA OITICH 1051	A	9.89																																
PA WAILUA 1115	A	2.15																																
PRINCEVILLE RANCH 1117	A	9.86																																
PUEHU RIDGE 1040	A	1.18																																
PUI 1013	A	1.18																																
WAILUA 930	A	8.89																																
WAILUA LOWER 1054	A	5.49																																
WAILUA UPPER 1052	A	7.00																																
WAILUA 943	A	4.15																																
WAILUA KAI 1065	A	2.65																																
WAILUA 947	A	5.70																																
WEST LAKE 931	A	2.70																																
ISLAND OF OAHU																																		
ALHA STADIUM-HALAWA	A	5.60																																
BETANIA PUMPING STA	A	1.03																																
B Y U LAIE 903.1	A	1.53																																
CAMPBELL IND PK 702.5	A	1.12																																
CAMP 84 807	A	7.75																																
COCONUT ISLAND 840.1	A	1.23																																
DAW PLANTATION 741	A	5.29																																
HELEMANO INTAKE 881	A	0.70																																
HONOLULU OBSERV 702.2	A	0.32																																
HONOLULU WSD 703 AP	A	3.24																																
KANEA POINT 841.3	A	1.80																																
KAHANA 883	A	15.22																																
KAILUA FIRE STA 791.3	A	1.54																																
KALIHU RES SITE 777	A	6.88																																
KANOEHE MAUKA 781	A	2.88																																
KAPALAHUA 773	A	3.33																																
KAWAHAPA 841	A	1.28																																
KENDU CAMP 8 855	A	2.20																																
KONA DR 853	A	6.81																																
MAKAHA KAI 796.1	A	5.34																																
MAKAHA PUMP 800.2	A	1.10																																
MAKAHILA 730.1	A	0.02																																
MANKA 712.1	A	5.82																																
MANKA LYN ARBORETUM	A	12.46																																
MANKA TUNNEL 2 716	A	12.66																																
MANKA 770	A	1.46																																
MANKA RES 4 783	A	6.28																																
MANKA RES 5 775	A	6.48																																
MANKA 870	A	3.33																																

# DAILY PRECIPITATION

HAWAII AND PACIFIC  
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STATION	TOTAL	DAY OF MONTH																															
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
HAWAII																																	
WAIKOLU 540	A	14.48	x	x	3.65	x	x	x	1.75	x	x	x	x	x	x	x	5.98	x	x	x	x	x	x	x	3.10	x	x	x	x				
ISLAND OF LANAI																																	
KANEPU 680	A	.68	x	x	x	x	x	x		.68	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x		
KAPULAPULU HARBOR 658	A	.04	.04	T																													
LANAI AIRPORT 656	A	1.00	.02										.78	.05	.12	.15	.27	.05															
LANAI CITY 672	A	.76	.03	x	.16	.03											.27	.05						.08								.02	
LANAHOLE 684	A	1.11	.60	x												.51																	
MAHANA 694																																	
MAHANA 694	A	.74	x	x	x	x	x	x	x	x	x	x	x	x	x	.63	x	x	x	x	x	x	x	.11	x	x	x	x	x	x	x		
MAHUA 676	A	.10	x	x	x	x	x	x	x	x	x	x	x	x	.05	x	.05	x	x	x	x	x	x	x	x	x	x	x	x	x	x		
WAIKAEKUA 685	A	1.07													.54	.41																.12	
ISLAND OF MAUI																																	
AWAHI 252	A	.23	.08					.15																									
HALEKALUA B E S 434	A	5.23					.01									.03	.42								.04	.03	1.42	.78	.01	.93	1.54		
HALEKALUA RANCH 432	A	1.65															.23																
HALEKALUA 45 338	A	5.28	.01	.21	T					.02			T	.02	T		.61	.01								T	2.00	.90	T	1.38	.36		
HALEKALUA 423	A	2.58															.30								.01	.01	.45	.75	x	x	.83		
HAKAUPAOKA 485	A	2.85	.03	.02			.08	T	T								.31	.03															
HANA 354	A	3.86	.03	.02			.17	.06	.03	.34	.01					.66	.93	.09															
HANA AIRPORT 355	A	4.26		.05	.07	.11	.04	.12	.13							.68	.63	.07								.04	.65	.32	.10	.56	.68		
HOLUR CABIN 259.5	A	8.00															.80	x	x	x	x	x	x	x	x	x	x	x	x	x	x		
HONOKAHU 480	A	8.44	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	8.44	
HONOKAHU 493																																	
HONOKAHU GULCH 341	A	3.05		.12	.15	.06	x	.04	x	x						.48	.40							.15	.25	.35	.20					.85	
KANAPALI RD 453.1	A	.53	.01	.04			.01	.01								.20	T																
KANOA INTAKE 374	A	.92	.13	.02	T			.03																									
KANULUI WSO 388 AP	A	.92	.13	.02	T			.03									.33	.04															
KAILI 436																																	
KAILUA 446	A	10.48																															
KAILUA INTAKE 375	A	9.00	.05	.02	.23	.07	x	.60	.02							.03	.66	x	x	x	x	x	x	x	.35	.18	2.30	.89	x	x	x	10.48	
KEAUA 410	A	1.02																															
KEANAE 346	A	16.00	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	16.00	
KEAWAKAPU BEACH 260.2																																	
KIHEI 311	A	.05		.05																													
KIPAHULU 258	A	.02	.02																														
KULA HEIGHTS 323.2	A	5.58				.10																											
KULA SANATORIUM 267	A	1.00	.05	.05	.22				.01								.60	.02															
LAHAINA 361																																	
LAUNIPUO INTAKE 376	A	.06	.02																														
LAUNIPUO VILLAGE 372	A	2.17																															
LUPU UPPER 442	A	.00																															
MAHINAHINA 466	A	11.20	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	11.20	
MAKALELE FIELD 60 487	A	2.08		.12				.02									.40	.03								.12	.07	.37	.09	.02	.47	.37	
OLINDA 332	A	5.25	x	x	x	x	x	.70																									
OLINDA 286	A	7.50		.13	.02												.11	.49	.01														
PAKES 350	A	.02															.02																
PAJA 406	A	13.56	.09	x	.27	.18	x	.84	x	x	.19	x	.05	.42			.80	x	.12							.59	.43	2.98	1.40	x	2.50	2.70	
PALEHULU 258.2	A	1.72	.07	.01		.02		T									.29										.07	.01	.36	.22	.05	.16	.46
PALEHULU 258.2																																	
PEAHI 488.6	A	6.80	x	x	x	x	x	x	x	x	x	x	x	x	x	x																	
POHAKA BRIDGE 307.2	A	7.45	.03	.03		.16	.51	.05									.72	.09															
POLIPO I SPRINGS 267.2	A	.08																															
PUNAHONA 2 343	A	1.83	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	1.83	
PUNAHONA 2 343	A	18.00	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	18.00	
PUNENE 396																																	
SPECKLESVILLE 400.2	A	.35	.01	.01													.23																
TWIN GATES 261.3	A	.81	.06			.05											.23																
UKULELE 333	A	.00																															
UKUPAHAE 301	A	5.48	x	x	x	x	x	x	x	x	x	x	x	x	x	x	.64	x	x	x	x	x	x	x	x	x	x	x	x	x	x	5.48	
ULUPAUA RANCH 250																																	
WAIKOLU 364	A	.08																															
WAIKOLU CAMP 484	A	3.26	.33	.29	1.58											.04	1.02																
WAIKOLU VALLEY 482	A	.21															.04																
WAIKOLU 448	A	1.22		.04													.30	.20															
WAIKOLU 448	A	2.48	x	x	x	x	x	x	x	x	x	x	x	x	x	x	.90	.30								.15	.25	.10	.06	.12			
WAIKOLU 448	A	13.30	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	13.30	
WAIKOLU DAM 336																																	
WAIKOLU 380	A	14.42	.01	.03	.30	.16	x	.04	.01							.19	1.21	.02															



# DAILY PRECIPITATION

HAWAII AND PACIFIC  
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		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
HAWAII																																
KUKUIHALE NIC 100	4.30			.05			.25			.02														.02	.02	.20	.02	2.85			.05	
KUKUIHALE MILL 206	3.30			.01																				.03	.03	.22	.01	x	x	2.26		
KULANI CAMP 70	7.70			.06	.25	.02	.10			.06	.05		.01			.02	.20								.45	.90	3.04	1.95				
KULANI MAUKA 76	3.06			.03												.05										.53	.05	1.30	.86			
KULANI SCHOOL SITE 70	2.02	x	x	x	x	.52	x	x	x	x	x	x	.20	x	x	x	x	x	x	.35	x	x	x	x	x	.24	x	1.85				
LANTHAU 60.2	1.10		.10				.30											.09		.22							.03	x	x		.05	
MAKAHAU 103	1.12			.22	.40																			.01	.02		x	x		.47		
MAUKA 2	1.10			.30	.40																							x	x		.40	
MAUNA KEA 005 111.2	-																										.16	T	-	-		
MAUNA LOA SLOPE 005	-																										.04	.09	.24			
MIDDLE MAUNA LOA 60.1	.70	x	x	x	x	x	x	.15	x	x	x	x	x	x	.23	x	x	x	x	x	x	x	x	x	.40			x	x	x	.10	
MIDDLE PEAK 147.1	.11	x	x	x	x	x	x	x	x	x	x	x	x	x	.01	x	x	x	x	x	x	x	x	x	x	x	x	x	x	4	.10	
MAUNA 10	3.23	x	x	x	x	x	x	.03	x	x	x	x	x	x	x	x	.40	x	x	x	x	x	x	x	x	x	x	x	x	x	2.80	
MOUNTAIN VIEW 91	12.09			.34	.32	.09	.37	.09	.21	.04	.01			.06		.37	.05	.06						.02	.06	.21	.65	1.61	5.25	3.08		
MAULEHU 14	4.09			.06	.07		.01							.07		.36	T										.06	2.41	1.05			
NAPAHU 20	.43															x	x	x	x	x	x	x	x	.03	x	x	x	x	x	x	.40	
NAKALA 223	6.63			2.50	.02	.70		.07	.01						T											.13	.32	.08	.05	2.15	.60	
NAKALA 2 24.1	.69	T	T	T	.10						.21			.11	.05	.08	T	T	T	T	T				.06		.03	.05	T			
NAKALO LAND EST 01.5	3.34	x	x	x	x	x	x	x	x	x	x	.64	x	x	x	x	x	.55	x	x	x	x	x	x	x	x	x	2.15	x	x		
NAKALO 217	3.86			1.20			.10																	.01	.02	.24	.02	2.15	.12			
PARAU 221	4.55			1.10	T		.10	T								.34	T									.06	.20		2.72	.21		
PAHUA 21	3.21			.06	.01	.05				.01	.11			.11	.49	.11	.15	.08										1.89	.72			
PAHUA 65	10.36	.04		.55	.25	.05	.06	.02	.30	.09	.01	.11		.10	.49	x	x	x	x	x	x	x	x	.07	.08	.55	1.15	1.71	2.72	1.58		
PAHUA 37	4.10	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	4.10	
PAPAIKU 144.1	9.89	x	x	.32	.07	x	x	.25	.17	.05	x	.21	x	x	.03	.86	.01	.20	x	x	x	x	x	.01	.01	.69	.43	x	x	6.50		
PAPAIKU MAUKA 140.1	13.51	x	x	1.29	.21	x	x	.72	.16	.13	x	.01	x	x	.11	.71	.01	.11	x	x	x	x	x	.03	.04	.70	.38	x	x	8.90		
PIHONUA 80	0.56	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	8.56		
PUNAHU 107	.37																														.30	
PUNAHU HEIAU 00.1	.60									.80																						
PUNAHU 73	.92	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	.92		
PUNAHU 04.1	.25					x	x	.12		.05	x	x	x	x	.02													.03	x	x	.03	
SADDLE ROAD 1 04	6.20	x	x	1.35	x	x	x	x	x	x	2.35	x	x	x	x	x	x	1.20	x	x	x	x	x	x	x	1.30	x	x	x	x		
SOUTH KONA 2.31	1.13			.28	.05	.03		x	x	.02			.01			.42															.32	
SOUTH POINT CORRAL 3	1.85	x	x	.50	x	x	x	x	x	x	x	.20	x	x	x	x	x	.15	x	x	x	x	x	x	x	x	x	1.00	x	x		
UPULU POINT USCG 150.2	.26			.04	T	T	T	T	.03							T										.02	T	.08	T	T	.04	.05
WAIKAKA SCD 00.2	12.07			1.03	.34	.08	.30	.14	.10		T			.04		.50	.03	.15							.03	.10	.22	1.14	.88	4.88	2.03	
WAIKAKA-BOIS CAS 95.8	.06				.04	x	x	.02							T																	

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# DAILY PRECIPITATION

HAWAII AND PACIFIC  
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STATION	TOTAL	DAY OF MONTH																														
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
PACIFIC																																
* * *																																
EAST OF 180TH MERIDIAN																																
CANTON ISLAND	3.18		1.22	.90	.10	.03	.07	.08	.03		.01					.28					*	.20	.10	.11	.04	.01						
FARA ALU RESERVOIR	10.37				.08	.19	.24	.83	.67	.01		2.11	.72	.84	.18							.06	.01	.11	.26	.47	.91	.86	.90		.92	
FALEASAO VILLAGE					.08	.06	.02	.02							.01							.08					.91	.06				
JOHNSTON WSO AP	R .39		T	T	.03																T	.08	T				T					
LEONE	6.07	.26	.01		.01			.06	.39	.15	.57	.01	.12	.03	.16			.02	T	T		.11	.73	1.25	.42	1.24	.01	.13	.25			
FRENCH FRIGATE SHOALS	2.19				.01									.28	.59	.01							.06	.07				.08	1.09			
MIDWAY SAND ISLAND																																
PAGO PAGO WSO AP	R 6.30	.20		.01	.22			.02	.04	.06	.13	.02	.21		.03	.02		.04			.38	.13	.48	1.44	1.63		1.12	.06	.06			
SWAINS ISLAND																																
* * *																																
WESTERN PACIFIC ISL.																																
NORTH OF 12 N																																
ANDERSEN AFB GUAM	3.07							.72	.17	.23	.46	.12	.03	.03	.01	.15						.08	.11	.49	.24	.03	T	.01		.15	.04	
CLARK AFB LUZON	T													T	T											T						
GUAM NAS	1.95	T	T	T				.26	.10	.31	.33	.14	.05	.05		.13						.16	.06	.02		.03	.24	.06	.01			
GUAM WSO	3.01		.02				.01	.64	.35	.43	.38	.10	.08	.06	.02	.10					T	.05	.04	.16		.02	.02	T	.17	.22	.13	
MANGILAO	2.25							.39	.02	.29	.43	.22	.05	.19	.01	.05							.13	.09	.02	.02	.04	.21	.04			
ROTA	2.69	.04						.06		.10	1.16	.16			.09				.02													
SAIPAN LORAN																																
WAKE WSO AP	R .87								.06	.20	T	.01	.14	.03	.01	T	T	.02				.02	T	.14	.06	.08		.07		.03	T	
* * *																																
CAROLINE AND MARSHALL ISLANDS																																
ANGUAA	7.09	.05	1.03	.02	.04	.02	.73	.16	.39	.24	.86	.69	1.01	.19	.22	.08	.53	.11	.03	.05	.01			53	.02	.08		.01				
ENISETAK	.65	.04	.23	.03	.01	.08	.04	.05		.02	.05					.01																
FALALOP I. ULITHI		.15	.25				.19	.15		.05	.19						.19															
KAPINGAMARANGI ATOLL	25.72	.05	.30	.15	.18	3.00	3.00	.03	.18	.25	2.00	2.00	1.48	.05	.56	.15	.41	.28	.80	.81	.88	3.00	1.63	1.58	.56	2.00	.38					
KOROR WSO	2 5.30	.30	.89	.30	.18		.26	.29	.16	.03	.28	T		.99	.31	T	.01	.37	T	.06	.01	1.25	T			.01						
KWAJALEIN MISSILE RON	R .04											.01																				
LELE I. KUSAIE	5.97											.05	.02			.02	.03	.04	1.08	.82	.23	1.49	.23	.01	.02	T	.89	.05	.99			
MAJURO WSO AP	R .77										.23	.02		.12	.24		.11	.03														
METALAIN	1.99	.60	.60							.18						.03						.05	.07			.02	.12	.32				
MOXIL ATOLL																																
NGASANG-BABELTHUAP	3.49	.01	.05	.61	.23	.02	.06	.70	.02	.07	.03	.06		.05	.11	.40		.02	.08	.74	.04	.22	.02	.10	.25	.03						
PANAPE WSO	1.05				T	.02		.02	.02	.07	.03	.27		.04	.11	.01																
SATAWAN ATOLL																																
TALIK, MOEN I. WSO AP	R 1.98		.34	.23			.11	.02	T	T	.14	.26	.55														.09	.10				
WOLEAI ATOLL																																
YAP WSO AP	R 2.18	.28	.02	.04		.12	.01	.06	.02	.15	.28			.04			.67	.12	.04	.12	.02	.05	T	.05	.01	.02	T	.06				

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STATION		DAY OF MONTH																															AVERAGE	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
HAWAII																																		
ISLAND OF KAUAI																																		
KANALOHULUHULU 1075	MAX MIN	69 42	66 42	67 43	68 42	69 45	70 44	68 46	68 45	69 53	68 42	68 44	63 45	62 45	66 46	58 51	68 51	69 42	69 44	70 45	71 43	69 44	62 48	62 55	69 51	72 52	68 60	68 58	67 55				67.3 47.3	
KILAUEA POINT 1133	MAX MIN	82 66	79 67	81 69	80 70	80 69	81 69	80 68	80 70	82 69	86 67	87 70	77 67	80 68	82 68	86 65	72 67	78 68	80 66	84 67	82 70	83 70	83 67	81 69	83 67	78 68	80 69	80 70	80 69				81.0 68.3	
KOOLA LN (MAKI) 940.1	MAX MIN	85 65	79 68	83 68	79 68	83 67	83 69	80 71	81 70	85 68	86 66	87 66	87 68	84 66	87 66	89 66	75 67	80 67	84 63	83 64	84 68	85 68	85 68	81 67	75 67	79 69	82 70	81 70	81 69				82.6 67.5	
LIHUE WSO 1020.1 AP	MAX MIN	77 64	78 69	78 65	78 68	79 67	79 70	78 72	80 68	80 68	81 62	80 65	79 64	80 64	80 66	73 67	78 71	78 66	76 62	78 62	79 66	79 67	80 71	73 68	78 67	79 70	78 71	78 71	78 69				78.3 67.1	
MANA 1026	MAX MIN	80 59	82 59	82 61	85 61	85 63	82 61	84 58	85 63	85 65	84 59	85 69	85 63	83 66	85 64	85 64	81 60	83 61	84 61	85 64	83 66	82 65	85 65	84 65	83 62	85 62	86 64	86 66	85 65				83.9 63.3	
NIU RIDGE 1035	MAX MIN	77 57	75 59	79 58				85 58	82 59	82 62	82 60	81 62		80 62	81 61	82 60	80 57	79 58	82 60			82 59			80 57								83 60	
WAIHI LOWER 1054	MAX MIN	78 54	76 62	74 58	77 58	75 59	74 58	74 64	75 62	78 57	77 54	76 57	77 54	77 56	75 62	75 59	72 62	75 58	74 53	76 54	75 55	75 60	73 60	72 64	67 61	72 62	72 65	72 62	69 65				74.4 59.1	
ISLAND OF OAHU																																		
ALOHA STADIUM-HALAWA	MAX MIN	83 63	83 64	84 65	82 67			83 65	81 65	82 62	82 64	79 66		85 65	80 69	76 68	81 64	82 63					85 64	82 70	74 68	79 68			82 68				81.3 65.7	
B Y U LAIE 903.1	MAX MIN	82 62	80 61	80 67	80 67	81 67	82 66	81 70	81 72	82 60	81 61	82 61	82 61	80 64	82 63	82 64	78 64	80 62	81 62	81 63	83 65	82 68	81 67	83 69	82 69	80 69	79 69	81 70	81 70	81 68				81.0 65.3
EWA PLANTATION 741	MAX MIN	84 62	83 62	84 62	85 62			85 62	82 62	82 58	81 59	81 62		85 62	82 65	80 66	83 61	83 59				84 59	85 64	85 69	79 68	83 66			85 66				83.1 62.8	
HONOLULU WSO 703 AP	MAX MIN	84 64	84 69	85 66	86 63	86 67	85 70	82 71	82 63	81 60	80 66	83 64	83 68	82 68	82 67	81 70	84 64	81 60	81 60	82 63	87 65	87 68	85 72	80 71	83 71	85 71	86 71	85 73	85 72				83.5 67.6	
KANEODE MAUKA 781	MAX MIN	77 66	81 67	79 68	77 69	80 70	81 70	78 69	78 69	82 68	83 68	80 68	83 68	83 69	82 68	83 68	73 63	72 62	81 65	78 66	83 67	79 69	78 68	71 69	74 69	77 69	78 70	76 67					78.8 68.0	
MANUA LYON ARBORETUM	MAX MIN	80 63	81 65	83 67	79 66	81 66	82 63	77 67	77 65	83 59	83 63	80 64	84 64	83 63	83 62	84 64	72 65	76 65	82 59	82 59	84 61	83 67	81 67	79 65	70 65	73 66	77 66	77 67	78 66				79.8 64.1	
OPAEULA 870	MAX MIN	80 61	80 60	82 62	82 61	80 61	76 66	86 62	86 61	86 60	86 59	79 61	79 63	80 63	82 64	83 63	85 64	88 62	85 57	82 58	81 61	86 61	86 62	86 61	86 62	86 62	76 62	77 61	77 67	79 68				33.0 61.9
WAIKALEE 896.3	MAX MIN	82 66	79 67	82 62	77 69	80 62	81 69	79 71	79 70	81 61	82 62	80 69	80 65	82 68	82 66		74 63	78 64	80 65	79 66		83 65	81 67	79 67	73 64	76 66	79 69	78 67	79 67				79.4 66.0	
WAILAUA 847	MAX MIN	85 60	85 61	84 60	80 61	85 62	85 60	80 66	80 65	83 57	80 58	83 59	83 61	82 58	82 66	83 63	73 62	80 56	80 60	80 58	82 59	84 61	85 63	80 66	71 65	78 66	81 66	81 66	80 66				81.3 61.4	
WAIKIKI 717.2	MAX MIN	82 63	83 64	87 65	83 66	84 67	84 67	83 70	83 64	84 66	83 66	83 66	84 66	86 66	84 64	84 68	79 68	82 64	83 60	83 62	86 65	85 65	85 71	84 69	78 69	83 70	83 70	84 69	83 69				83.4 66.1	
WAIMANALO EXP FARM	MAX MIN	79 60	80 62	78 66	79 66	80 66	80 66	80 70	78 69	82 61	82 62	80 65	80 65	84 66	82 64	81 65	74 66	77 66	80 60	81 62	81 66	83 66	82 69	81 67	74 67	76 68	79 69	80 70	79 69				79.8 65.7	
ISLAND OF MOLOKAI																																		
MOLOKAI AP 524	MAX MIN	79 65	83 68	83 65	82 64			82 66	81 61	84 69				84 59	85 61	74 66	80 62	80 60	81 61		84 62	81 68	81 67	78 67	79 68	82 67							81.2 64.5	
ISLAND OF LANAI																																		
LANAI AIRPORT 656	MAX MIN	77 63	79 62	76 62	78 58	78 62	77 62	78 59	77 59	79 55	76 59	79 60	78 61	76 57	75 57	79 61	72 61	76 58	78 55	77 58	78 60	79 58	79 65	77 65	78 62	78 61	79 59	78 62	79 63				77.5 60.0	
LANAI CITY 672	MAX MIN	75 64		77 65	73 63			76 63	76 63	79 59	80 63				77 59	80 65	77 63	78 63	77 59			81 61			72 64								80 64	
ISLAND OF MAUI																																		
HALEAKALA RS 338	MAX MIN	65 45	65 45	62 38	62 38	65 39	68 46	70 47	70 45	70 45	71 37	66 37	56 37	60 39	64 43	64 38	58 40	56 38	63 43	67 44	69 47	73 51	72 40	68 44	60 45	55 39	63 47	62 45	60 45				64.4 42.4	
HANA AIRPORT 355	MAX MIN	87 63	80 63	79 67	80 66	81 68		81 68	80 69	80 67	83 65	85 59	81 65	82 71	82 65	80 67	78 64	79 65	80 61	79 65	81 65	79 68	81 68	80 68	78 65	81 65	81 68	78 68					80.6 65.7	
KANAPALI AP 453.1	MAX MIN	80 65	80 66	78 63	79 62	83 62	80 63	79 68	79 68	80 64	81 67	80 65	81 65	81 62	79 62	81 65	78 63	80 62	79 61	78 64	81 63	80 63	78 67	81 67	81 66	77 69	82 65	81 67	80 66				79.9 64.5	
KAHULUI WSO 398 AP	MAX MIN	80 67	79 66	80 67	82 60	81 60	82 68	84 60	82 63	84 61	84 69	83 63	84 65	84 63	83 61	82 64	81 69	83 60	80 59	86 60	84 60	84 64	79 73	84 69	83 70	79 64	83 63	82 70	82 70				82.4 64.6	
KAILUA 446	MAX MIN	81 63	79 63	81 64	76 63			76 60	75 63	78 62	76 64				79 65	77 66	76 64	77 65				80 60	79 66	77 66	76 66								77.5 63.3	
KEAWAKAPU BEACH 260.2	MAX MIN	83 67	80 68	80 68	80 61	84 62	81 63	85 61	83 64	84 60	84 61	82 63	82 63	82 63	85 62	82 60	80 62	85 62	84 60	83 61	87 65	84 65	82 65	86 65	87 65	85 65	86 62	87 65	85 63				83.5 63.4	
KULA SANATORIUM 267	MAX MIN	78 60	67 58	67 60	71 54	71 55	68 56	70 56	70 57	60 53	71 54	74 57	70 55	70 56	72 53	69 54	68 54	71 55	72 54	73 52	76 55	76 54	70 56	75 51	74 58	74 57	74 55	73 57	70 60				71.6 55.6	

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STATION		DAY OF MONTH																															AVERAGE	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
HAWAII																																		
LAHAINA 361	MAX MIN	83 67	85 67	86 63	84 64	84 64	85 68	84 66	83 65	83 63	85 65	84 66	83 62	85 64	82 65	83 64	83 63	84 63	86 65	84 65	86 66	87 65	87 65	87 67	86 65	86 66	87 66	86 70					84.7 65.1	
WAILUKU 386	MAX MIN	83 66	81 67	79 68	79 68			81 64	79 67	80 64	82 65	83 64		83 62	82 66	79 65	78 66	80 62			81 62	80 70	81 70	79 67	76 69			81 68					80.4 66.0	
• • •																																		
ISLAND OF HAWAII																																		
HAWAII VOLCNS NP HQ 54	MAX MIN	67 49	72 45	72 55	62 49	68 48	70 50	67 51	69 49	65 49	69 51	70 50	69 53	69 52	72 45	67 35	65 50	67 51	68 44	72 42	72 52	74 45	73 54	69 52	68 46	61 53	63 52	65 53	63 52				68.1 49.2	
HILO WSO 87 AP	MAX MIN	88 66	86 61	83 64	85 63	86 64	84 67	82 65	82 63	86 64	81 65	84 64	86 64	84 66	84 66	82 64	83 64	83 60	82 59	85 62	86 61	83 68	83 70	82 67	81 66	82 67	82 66	81 65					83.5 64.5	
KAINALIU 73.2	MAX MIN	79 58	78 62	79 59	77 58	75 56	77 59	76 59	78 59	77 58	78 59	80 60	78 59	75 60	75 60	78 58	78 57	73 56	77 55	73 56	76 55	78 57	78 56	79 58	77 60	75 59	78 61	79 62					77.1 58.5	
KAMUELA 192.2	MAX MIN	74 49	75 51	77 55	69 50			75 48	76 48	76 48	75 51	74 49		77 47	71 45	69 51	70 53	74 45							79 59	71 47			74 42					
KAPOHO BEACH 93.11	MAX MIN																																	
KEAAU 92	MAX MIN	86 51	84 60	81 63	79 60	79 60	82 64	79 64	78 62	79 61	81 61	86 62	84 62	80 62	81 63	79 62	80 61	79 61	80 57	79 57	80 60	82 59	82 66	80 64	80 64	78 64	78 65	78 64	78 64					80.4 61.5
KEALAKEUA 2 28.7	MAX MIN	80 59	78 61	78 61	78 61			77 61	80 60	78 61	79 61	81 61		78 62	78 60	79 60	75 60	78 59	78 59	75 60	78 59	75 61	79 61	79 61	62 60	77 62	79 60	80 62	80 63					78.3 60.5
KOHALA MISSION 175.1	MAX MIN	80 63	79 62	79 64	79 64	77 61	79 61	77 66	75 62	78 64	80 63	82 62	81 61	79 61	80 61	79 62	79 67	78 64	78 58	78 58	78 61	78 64	79 64	79 68	76 66	77 66	78 65	75 65					78.4 63.1	
KONA (KAILUA) 68.3	MAX MIN	82 64	81 66	82 69	81 68			83 68	83 68	82 67	84 68	83 68		84 68	84 67	82 66	80 67	83 68							83 66	82 70	83 70	81 69		84 69				82.5 67.7
KULANI CAMP 79	MAX MIN	77 41	67 40	62 48	68 39	61 40	66 48	60 43	63 38	64 44	72 38	67 40	61 48	64 43	67 40	60 41	65 41	60 42	63 40	70 43	71 42	68 42	68 43	63 43	57 48		60 48	68 48	59 48					64.9 42.9
MAUNA LOA SLOPE 085	MAX MIN	51 37	51 36	52 36	54 39	53 36	58 37	56 40	57 40	59 39	58 40	54 36	54 35	52 35	52 36	46 33	42 30	49 31	57 38	54 38	56 41		50 35	44 33	46 30	48 33	48 32	42 34	43 32					51.3 35.6
MOUNTAIN VIEW 91	MAX MIN	79 57	81 56	82 60	72 54	77 54	78 60	78 60	75 57	72 59	76 59	79 59	75 59	78 56	78 56	76 58	75 58	75 55	78 54	78 51	78 51	78 51	79 57	78 61	76 60	73 60	70 61	73 60	73 60					76.3 57.3
NAALEHU 14	MAX MIN	84 63	80 65	80 68	79 65			81 65	79 66	78 66	79 64	83 63		78 62	78 63	76 63	78 61	82 58				78 54	78 64	79 61	80 61			79 65					79.3 63.1	
OOKALA 223	MAX MIN	78 65	79 64	79 63	78 66	77 63	80 64	77 67	76 65	79 65	78 65	79 65	77 52	78 52	80 63	78 65	80 66	79 65	78 62	78 61	78 65	78 63	79 65	73 55	80 66	79 66	80 65	76 65	75 65					78.1 63.4
OPIHIHALE 2 24.1	MAX MIN	79 60	78 61	75 59	80 59	78 62	78 62	80 59	80 60	75 63	83 62	78 59	75 59	80 60	74 64	78 62	74 63	79 61	72 59	75 59	74 58	78 59	79 60	80 63	80 67	80 60	80 62	80 63	78 60					77.9 60.9
PAHALA 21	MAX MIN	82 60	80 61	81 62	78 59			81 61	82 62	76 62	80 63	82 61		80 59	80 63	77 60	82 58	78 58				79 56	80 61	81 60	85 62	83 65			81 62					80.4 60.8
PUUKOHOLA HEIAU 98.1	MAX MIN	85 64	82 63	84 70	83 62	82 62	82 61	84 61	82 61	83 64	83 64	84 63	84 64	84 64	85 65	80 65	85 69	84 67	85 62	83 66	84 65	84 65	83 66	86 63	86 62	82 65	84 69	85 69	86 69					83.7 64.5
SOUTH KONA 2.31	MAX MIN	77 56	74 57	76 59	74 58	75 55	77 59	75 59		73 58	75 57	77 56	77 58	76 56	77 60	77 58	74 54	75 55	74 51	71 50	76 50		80 52	76 53	78 54	73 60	77 56	71 57					75.4 55.9	
UPOLU POINT USCG 159.2	MAX MIN	83 64	80 65	76 69	81 66	81 63	79 64	78 66	82 63	83 64	81 66	85 60	83 64	83 64	82 66	77 68	80 64	81 62	80 64	81 63	80 62	77 67	83 62	80 62	78 66	80 65	80 65	79 66	78 65					80.4 64.5

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STATION		DAY OF MONTH																															AVERAGE
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
PACIFIC																																	
• • •																																	
EAST OF 180TH MERIDIAN																																	
CANTON ISLAND	MAX MIN	91 81	91 80	88 79	88 70	89 81	89 79	88 80	89 81	90 81	90 82	91 82		90 80	89 80	90 80	90 79	90 80	90 80	90 80		90 80	89 79	89 80	90 80	90 80	90 80		90 80				89.6 79.8
JOHNSTON WSO AP	MAX MIN	83 74	81 75	82 74	81 70	81 73	81 73	81 76	81 73	81 75	82 74	82 75	82 75	82 75	82 73	80 73	82 75	81 76	81 74	81 74	81 75	82 73	81 76	81 74	81 75	80 75	81 73	81 76	81 75				81.3 74.3
LEONE	MAX MIN	90 81	92 81	93 74	93 70	94 73	92 73	94 76	92 73	89 75	95 74	92 75	93 75	94 75	93 73	94 75	93 76	92 74	91 75	91 75	83 73	91 75	88 76	93 75	89 75	91 73	90 76	90 76					91.1
FRENCH FRIGATE SHOALS	MAX MIN	76 64	77 68	80 66	79 67	81 67	82 67	79 70	78 70	80 70	81 68	74 65	71 67	70 67	67 64	71 67	73 69	73 70	80 69	82 69	82 63	69 65	74 64	75 66	77 68	79 72	73 66	71 63					76.2 67.2
MIDWAY SAND ISLAND	MAX MIN																																
PAGO PAGO WSO AP	MAX MIN	87 75	87 74	87 74	89 76	89 75	88 73	88 82	88 77	89 76	89 79	89 78	88 79	89 75	90 76	90 76	90 77	89 75	90 74	87 77	92 77	85 78	87 76	85 74	90 75	84 75	88 73	88 80	87 81				88.2 76.3
SWAINS ISLAND	MAX MIN																																
• • •																																	
WESTERN PACIFIC ISL. NORTH OF 12° N																																	
ANDERSEN AFB GUAM	MAX MIN	83 78	82 77	82 76	83 76	83 77	83 77	82 74	83 75	81 76	83 76	82 75	81 76	82 76	83 77	83 76	83 77	83 78	83 78	83 77	83 78	83 77	84 77	84 77	84 79	84 77	85 77	83 79	84 77	84 77			82.9 76.8
CLARK AFB LUZON	MAX MIN	90 72	91 72	88 66	86 70	90 70	86 72	86 66	82 68	88 70	84 68	84 72	88 70	88 73	90 70	82 72	84 72	82 70	86 66	86 66	90 73	88 73	88 73	86 73	90 75	91 72	88 75	91 73					87.0 70.6
GUAM NAS	MAX MIN	84 77	83 77	86 74	85 75	85 76	86 72	83 73	84 74	82 75	85 73	85 74	82 75	83 75	85 76	85 75	84 76	85 75	86 76	85 76	85 76	84 76	85 73	83 74	85 74	82 73	84 74	85 74	85 73	84 74	85 76		84.4 75.0
GUAM WSMO	MAX MIN	83 74	82 73	84 64	84 62	85 71	84 68	82 71	83 71	81 72	83 72	83 70	82 72	83 72	84 70	84 72	84 70	82 67	84 70	83 69	83 73	84 71	85 71	84 71	85 74	85 70	85 70	82 70	85 71				83.5 70.4
SAIPAN LORAN	MAX MIN																																
WAKE WSO AP	MAX MIN	81 72	81 71	84 72	83 70	83 70	85 72	86 74	82 70	79 70	80 71	83 70	78 69	80 69	80 69	84 70	85 74	85 73	86 72	84 73	83 72	78 70	81 70	83 71	83 71	84 70	84 74	84 71	85 73				82.6 71.2
• • •																																	
CAROLINE AND MARSHALL ISLANDS																																	
ENIWETAK	MAX MIN	80 78	79 77	82 79	84 80	82 78	83 78	84 78	81 79	82 79	80 79	80 79	84 79	85 78	84 79	83 79	86 79	86 79	86 80	83 79	83 80	84 79	85 79	84 79	84 79	84 79	84 79	84 79	84 80				83.2 78.8
FALALOP I. ULITHI	MAX MIN	82 75	82 79	83 79	84 79	84 79	84 76	82 78	83 80	88 81	86 82	85 79	83 83	86 83	96 83	85 83	86 83	86 83	83 79	83 80	84 79	85 79											84.8 80.0
KAPINGAMARANGI ATOLL	MAX MIN	88 76	90 75	90 78	89 77	89 70	88 70	84 74	88 78	88 78	89 75	88 72	84 70	83 73	86 74	84 74	86 73	87 75	89 78	86 75	85 78	89 78	86 75	85 78	88 74	82 70	86 72	88 74	88 75	89 76	88 72		87.1 74.5
KOROR WSO	MAX MIN	85 75	88 74	87 74	87 76	88 74	87 75	87 73	85 72	86 75	87 73	87 75	89 76	85 78	84 76	87 76	88 76	89 76	84 76	87 76	87 76	87 76	87 76	87 76	87 76	87 76	87 76	88 76	88 76	88 76			86.9 75.5
KWAJALEIN MISSILE RGN	MAX MIN	87 77	86 77	86 78	87 78	87 78	86 78	86 77	87 77	87 78	87 78	87 78	86 77	85 78	86 78	87 78	87 78	87 78	87 78	86 78	86 78	86 78	86 78	86 78	86 78	86 78	86 78	87 78	87 78	87 78			86.8 77.7
LELE I. KUSAIE	MAX MIN	90 78	89 77	88 68	88 76	91 78	89 79	89 79	89 80	89 79	87 77	88 76	88 79	90 79	89 77	89 74	89 70	87 76	87 73	87 75	87 78	88 79	88 73	87 76	87 76	90 73	89 76	89 75	89 77	89 75			88.9 76.3
MAJURO WSO AP	MAX MIN	86 78	84 78	86 78	86 78	86 76	87 78	87 76	87 79	85 78	83 76	86 74	85 77	83 74	83 77	85 77	86 77	86 77	86 77	86 77	86 77	86 77	86 77	86 77	86 77	86 77	86 77	86 77	86 77	86 77			85.8 76.7
METALANIM	MAX MIN	86 80	87 81	86 82	89 84	88 83	87 85	86 80	88 80	85 81	86 82	88 83	87 85	85 79	88 81	85 73	87 74	85 81	86 80	86 80	87 80	87 80	86 80	86 80	86 80	86 80	86 80	86 80	86 80	86 80	86 80		86.3 79.4
PONAPE WSO	MAX MIN	87 76	88 77	87 78	88 78	87 75	89 73	85 75	87 78	87 75	88 78	88 75	87 77	87 77	88 76	88 75	89 78	89 78	88 79	89 78	88 78	89 78	88 78	89 78	88 78	88 78	88 78	89 78	90 79				88.1 77.0
SATAWAN ATOLL	MAX MIN																																
TRUK. MOEN I. WSO AP	MAX MIN	85 79	86 75	86 76	85 79	86 78	86 74	86 76	86 77	86 78	85 77	86 77	82 75	85 78	86 77	86 79	85 78	85 78	85 78	85 78	87 77	86 78	86 79	86 79	86 79	86 79	86 79	86 79	86 79	86 79	86 79		85.8 77.3
WOLEAI ATOLL	MAX MIN																																
YAP WSO AP	MAX MIN	86 74	86 76	86 75	86 74	87 72	86 76	87 74	87 75	86 74	86 74	86 76	86 76	86 75	85 76	85 77	86 74	86 75	86 75	86 75	86 75	86 75	86 75	86 75	86 75	86 75	86 75	86 75	86 75	86 75	86 75		86.3 74.7

SEE REFERENCE NOTES FOLLOWING STATION INDEX



# EVAPORATION AND WIND

HAWAII AND PACIFIC  
FEBRUARY 1977

STATION	DAY OF MONTH																															TOTAL OR AVG.	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
HAWAII																																	
ISLAND OF KAUAI																																	
LIHUE WSO 1020.1 AP	EVAP	-	-	-	-	-	-	.25	.27	.15	.25	.28	.25	.11	.15	.33	.17	.23	.30	.18	.20	.22	.26	.38	.45	.28	.34	.28				5.788	
	WIND	-	-	-	-	-	-	183	147	63	81	99	86	72	74	154	242	150	76	73	66	65	105	499	185	193	220	231				40858	
	MAX	-	-	-	-	-	-	86	86	87	87	87	87	82	83	81	75	82	88	83	87	87	88	87	88	86	83	82				84.9	
	MIN	-	-	-	-	-	-	65	66	63	60	64	62	64	64	65	65	64	60	60	60	60	62	62	60	66	66	67				63.1	
ISLAND OF OAHU																																	
HONOLULU OBSERV 702.2	EVAP	.31	.24	.30	.30	.30	-	.45	.15	.30	.20	.19	.30	.34	.30	.27	.20	.35	-	.60	.30	.41	.30	.43	.34	.36	.30	.45	.42				9.068
	WIND	63	34	28	24	24	-	73	23	30	23	20	20	22	30	31	37	28	-	50	25	35	36	52	50	38	36	46	45				9948
	MAX	87	87	90	87	89	88	88	82	89	88	85	91	91	91	89	82	88	88	88	90	91	89	87	90	85	87	89	88	88			88.0
	MIN	65	62	65	66	65	65	65	64	60	61	65	65	64	65	64	66	63	63	62	65	62	65	68	67	65	66	68	67				64.6

SEE REFERENCE NOTES FOLLOWING STATION INDEX

# EVAPORATION AND WIND

HAWAII AND PACIFIC  
FEBRUARY 1977

STATION		DAY OF MONTH																															TOTAL OR AVG.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
PACIFIC																																	
• • • EAST OF 180TH MERIDIAN																																	
JOHNSTON WSO RP	EVAP	.22	.33	.38	.33	.39	.29	.30	.31	.32	.21	.13	.40	.32	.34	.36	.32	.40	.31	.37	.33	.32	.41	.40	.41	.33	.34	.35	.35			9.27	
	WIND	102	151	211	225	258	277	220	187	170	120	161	149	104	157	257	221	185	192	189	184	200	292	285	301	232	243	221	203			5697	
	MAX	84	83	84	82	82	82	83	84	82	87	85	88	88	85	81	87	85	82	85	86	83	82	83	83	83	84	86	86			84.1	
	MIN	69	68	67	67	66	67	68	67	66	65	67	67	67	67	67	67	67	67	67	66	68	67	67	67	68	67	68	68			67.1	
• • • WESTERN PACIFIC ISL. NORTH OF 12 N																																	
GUAM WSMO	EVAP	.13	.22	.22	.23	.27	.22	.20	.11	.16	.36	.01	.14	.23	.29	.19	.26	.30	.30	.20	.24	.26	.18	.26	.30	.30	.34	.30	.27			6.49	
	WIND	135	140	81	61	138	59	102	127	186	213	140	163	186	147	147	84	120	119	106	160	184	130	103	184	213	201	165	181			3975	
	MAX	86	85	92	90	92	91	85	86	85	86	90	83	86	90	89	92	86	89	88	86	90	91	91	87	89	88	89	89			88.3	
	MIN	72	72	67	67	69	69	71	70	71	73	72	72	72	70	72	68	69	69	69	72	72	71	71	71	70	71	70	71			70.5	

SEE REFERENCE NOTES FOLLOWING STATION INDEX

# STATION INDEX

HAWAII AND PACIFIC  
FEBRUARY 1977

STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES				OBSERVER
								TEMP.	PRECIP.	EVAP.	SPECIAL (SEE NOTES)	
HAWAII												
ISLAND OF KAUAI												
ALEXANDER RESV. 983	0140	02	KOLOA	2	21 57	159 32	1610					MCBRYDE SUGAR CO.
ANAHOLA 1114	A 0145	01	KAWAIIHAW	1	22 08	159 18	180		7A		C	LIHUE PLANTATION CO
BRYDESWOOD STA 985	A 0240	02	KOLOA	2	21 56	159 32	720		7A			MC BRYDE SUG CO LTD
EAST LAWA 934	A 0456	02	KOLOA	2	21 55	159 30	440		7A			MC BRYDE SUG CO LTD
ELEEE 927	A 0470	02	KOLOA	2	21 54	159 35	163		6A			MC BRYDE SUG CO LTD
HALAULA 1110	A 0935	01	KAWAIIHAW	1	22 07	159 19	253		7A			LIHUE PLTN CO LTD
HALENANAO 1006	A 1038	02	LIHUE	2	21 58	159 26	490		8A			LIHUE PLANTATION CO
HANAIEI TUNNEL 1053	A 1170	01	KAWAIIHAW	1	22 05	159 28	1218				S	LIHUE PLTN CO LTD
HUKIPO 945	2161	D3	WAIMER	3	21 59	159 41	800		8A			KEKAHA SUGAR CO LTD
LIILILULA INTAKE 1050	A 2222	02	LIHUE	2	22 02	159 28	1050		VAR			LIHUE PLTN CO LTD
INTAKE WAINIHA PC 1086	A 2227	D1	HANAIEI	1	22 09	159 34	690		W1			MC BRYDE SUG CO LTD
KANALOAHULUHULU 1075	3099	03	WAIMER	3	22 08	159 40	3600	7A	7A		C	STATE DIVISION OF PARKS
KANEHA RESERVOIR 1092	A 3104	01	KAWAIIHAW	1	22 08	159 23	830		7A			LIHUE PLANTATION
KAPAA STABLES 1104	A 3159	01	KAWAIIHAW	1	22 05	159 20	175		7A		C	LIHUE PLTN CO LTD
KEALIA 1112	A 3982	01	KAWAIIHAW	1	22 06	159 19	9		7A			LIHUE PLTN CO LTD
KEKAHA 944	A 4272	03	WAIMER	3	21 58	159 43	9		8A		C	KEKAHA SUGAR CO LTD
KILAUEA 1134	A 4561	01	HANAIEI	1	22 13	159 25	320		7A		C	NICK RAPDZO
KILAUEA POINT 1133	A 4568	01	HANAIEI	1	22 14	159 24	180	8A	8A			MELVALEIGH SEILLEMAKER
KOLO 1033	4735	D3	WAIMER	3	22 04	159 46	36		7A			KEKAHA SUGAR CO LTD
KOLOA 936	A 4742	D2	KOLOA	2	21 55	159 28	240		8A			MCBRYDE SUGAR CO
KOLOA LN (MAK) 940.1	4748	D2	KAUAI	2	21 52	159 27	52	AOZ	AOZ			AUSCG LORAN STATION
KOLOA MAUKA 994	A 4750	D2	KOLOA	2	21 57	159 29	640		7A			MCBRYDE SUGAR COMPANY
KUKUIULA 935	A 4950	D2	KOLOA	2	21 54	159 30	100		6A			MC BRYDE SUG CO LTD
LIHUE VARIETY ST 1062	A 5560	D2	LIHUE	2	22 01	159 23	380		7A		C	LIHUE PLANTATION CO LTD
LIHUE 1020	A 5575	D2	LIHUE	2	21 59	159 22	207		7A			LIHUE PLTN CO LTD
LIHUE WSO 1020.1 AP	R 5580	D2	LIHUE	2	21 59	159 21	103	MID	MID	MID	J	NATL WEATHER SERVICE
MAKAWELI 965	A 5864	D3	WAIMER	3	21 55	159 38	140		7A			DLOKELE SUGAR CO
MANA 1026	A 6082	D3	WAIMER	3	22 02	159 46	20	8A	8A			KEKAHA SUGAR CO LTD
MOHIHI UPR CROSS 1083	A 6433	D1	WAIMER	3	22 07	159 36	3500		MID		S	U S GED SURVEY
MOLOAA 1145	A 6529	D1	KAWAIIHAW	1	22 11	159 20	330		7A			THEODORE JAVELLANA JR
MOUNT WAIALEALE 1047	R 6565	D3	WAIMER	2	22 04	159 30	5148		MID		S	U. S. GED. SURVEY
NIU RIDGE 1035	A 6850	D3	WAIMER	3	22 02	159 44	1250	6A	6A			KEKAHA SUGAR CO LTD
N WAILUA DITCH 1051	A 6888	D2	LIHUE	2	22 04	159 28	1110		7A			LIHUE PLTN CO LTD
N WAILUA RIVER 1055	A 6893	D2	LIHUE	2	22 04	159 26	650				S	LIHUE PLTN CO LTD
PH WAINIHA 1115	A 8155	01	HANAIEI	1	22 12	159 34	101		6A		C	MC BRYDE SUG CO LTD
PRINCEVILLE RANCH 1117	A 8165	01	HANAIEI	1	22 13	159 29	295		9A		C	PRINCEVILLE RANCH INC
PUEHU RIDGE 1040	A 8205	D3	WAIMER	3	22 01	159 42	1660		8A			KEKAHA SUGAR CO LTD
PUHI 1013	A 8217	D2	LIHUE	2	21 58	159 24	329		8A			LIHUE PLANTATION CO
STABLE CAMP 1055.1	A 8694	D2	LIHUE	2	22 04	159 27	740				C	LIHUE PLANTATION CO LTD
WAIHAWA 930	A 8941	D2	KOLOA	2	21 54	159 34	215		7A		C	MC BRYDE SUG CO LTD
WAIHAI LOWER 1054	8958	D2	LIHUE	2	22 01	159 27	565	6A	6A			LIHUE PLTN CO LTD
WAIHAI UPPER 1052	8966	D2	LIHUE	2	22 01	159 28	780		6A			LIHUE PLTN CO LTD
WAIHAWA 943	9253	D3	WAIMER	3	21 59	159 43	10		8A			KEKAHA SUGAR CO LTD
WAILUA KAI 1065	A 9467	D2	LIHUE	2	22 02	159 21	50		7A			LIHUE PLANTATION
WAIMER 947	9629	D3	WAIMER	3	21 58	159 41	20		8A			KEKAHA SUGAR CO.
WEST LAWA 931	A 9955	D2	KOLOA	2	21 54	159 31	210		6A			MC BRYDE SUG CO LTD
ISLAND OF OAHU												
AHIIMANU LOOP 839.12	0055	01	KOOLAUPOKO	1	21 26	157 51	320				C	DON MITCHELL
ALOHA STADIUM-HALAWA	0172	D3	OAHU	3	21 23	157 56	40	8A	8A			ALOHA STADIUM
BERETANIA PUMPING STA	0211	D2	HONOLULU	2	21 19	157 51	20		9A			BOARD OF WTR SUPPLY
B Y U LAIE 903.1	0240	D1	KOOLAUPOKO	1	21 39	157 56	20	12M	12M			B Y U-HAWAII CAMPUS
CAMPBELL INO PK 702.5	0248	D2	OAHU	3	21 19	158 07	10		8A			CHEVRON U S A INC
CAMP 84 807	A 0300	D3	EWA	3	21 26	158 01	760		6A		C	DEL MONTE CORPORATION
COCONUT ISLAND 840.1	0350	01	KOOLAUPOKO	1	21 26	157 47	15		8A			H INST MARINE BIOLOGY
DOWSETT HIGHLDS 780.8	0438	D2	HONOLULU	2	21 21	157 50	565				C	J.L. BANNING
EWA PLANTATION 741	0507	D3	EWA	3	21 21	158 02	5	9A	7A			OAHU SUGAR COMPANY
HALAWA SHAFT 771.2	0964	D2	HONOLULU	2	21 23	157 54	170				C	BOARD OF WATER SUPPLY
HELEMANO INTAKE 881	A 1384	D5	WAILUA	5	21 33	158 00	1274		W1		C	WAILUA SUGAR CO. INC.
HOKULOA 725.2	A 1540	D3	EWA	3	21 24	158 06	2220				C	H. V. VON HOLT
HONOLULU OBSERV 702.2	1918	D3	EWA	3	21 19	158 00	5		9A	9A		NATIONAL WEATHER SERV
HONOLULU WSO 703 AP	R 1919	D2	HONOLULU	2	21 20	157 55	7	MID	MID		C	NATL WEATHER SERVICE
KAA LAKEI 724.6	2269	D2	HONOLULU	2	21 18	157 43	10				C	MRS. MILLIE ZAPATA
KAENA POINT 841.3	2410	D4	WAILUA	4	21 34	158 15	1240		9A			U S AIR FORCE
KAHANA 883	A 2462	D1	KOOLAUPOKO	1	21 31	157 54	800		W1			WAIHOLE WTR CO LTD
KAHUKU 912	A 2570	D1	KOOLAUPOKO	1	21 42	157 59	15				C	KIULIMA HOTEL

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## STATION INDEX

HAWAII AND PACIFIC  
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STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES				OBSERVER
								TEMP.	PRECIP.	EVAP.	SPECIAL (SEE NOTES)	
ISLAND OF OAHU												
KAILUA FIRE STA 791.3	2683	01	KOOLAUPOKO	1	21 24	157 45	10		8A		C	KAILUA FIRE STATION
KALAMA VALLEY 724-13	2842	02	OAHU	2	21 18	157 41	75				C	GRADEN HARGER
KALIHU RES SITE 777	R 2960	02	HONOLULU	2	21 23	157 50	910		MID			BOARD OF WTR SUPPLY
KANEHOE MAUKA 781	3113	01	KOOLAUPOKO	1	21 25	157 49	325	7A	7A			STATE HOSPITAL
KAPALAMA 773	A 3268	02	HONOLULU	2	21 21	157 52	614		8A			KAMEHAMEHA SCHOOLS
KAWAIHAPAI 841	A 3734	05	WAIALUA	5	21 35	158 11	40		7A			WAIALUA SUGAR CO. INC.
KEMOO CAMP 8 855	A 4318	05	WAIALUA	5	21 33	158 05	725		7A			WAIALUA SUGAR CO. INC.
KOOLAU DAM 833	A 4766	05	WAIHAWA	5	21 30	157 58	1160		8A			C & F OFFICER HEOG
LULUKU 781.7	5655	01	KOOLAUPOKO	1	21 24	157 49	240				C	NATIONAL WEATHER SERV
MAKAHA KAI 796.1	A 5766	04	WAIANAE	4	21 28	158 13	15		7A			HAROLD ROBERTS
MAKAHA PUMP 800.2	A 5782	04	OAHU	4	21 29	158 12	400		8A		C	CAPITAL INVESTMENT CO.
MAKAKILO 730.1	5789	03	OAHU	3	21 21	158 06	300		6A			NEAL ADAMS
MANDA 712.1	6122	02	HONOLULU	2	21 19	157 49	220		7A			MRS. JOHN H. BEAUMONT
MANDA LYON ARBORETUM	6128	02	OAHU	2	21 20	157 48	500	8A	8A			LYON ARBORETUM
MANDA TUNNEL 2 716	R 6130	02	HONOLULU	2	21 20	157 48	650		MID			BOARD OF WTR SUPPLY
MAUNAWILI 787.1	6222	01	KOOLAUPOKO	1	21 21	157 46	410				C	EXP. STA. H.S.P.A.
MOANALUA 770	6395	02	HONOLULU	2	21 21	157 54	20		9A			JOHN A. ROXBURGH
MOMILANI 835.1	6547	03	OAHU	3	21 25	157 58	325				C	CHESTER T. KAINUMA
MOUNT KAALA 844	6553	04	WAIANAE	4	21 31	158 09	4015				C	FEDERAL AVIATION ADM
NUUANU RES 4 783	6928	02	HONOLULU	2	21 21	157 49	1048		MID			BOARD OF WTR SUPPLY
NUUANU RESERV 5 775	A 6933	02	HONOLULU	2	21 21	157 50	410		W1			BOARD OF WTR SUPPLY
OPAEULA 870	A 7150	05	WAIALUA	5	21 34	158 02	1060	7A	7A		C	WAIALUA SUGAR CO. INC.
PAIKO DR 723.4	7540	02	HONOLULU	2	21 17	157 44	10		7A			O. L. GRUBB
PALI GOLF COURSE 788.1	7656	01	OAHU	1	21 23	157 47	480		10A			CC DEPT. PKS RECREATION
PALOLO VALLEY 718	R 7664	02	HONOLULU	2	21 20	157 46	995		MID			BOARD OF WTR SUPPLY
PAUOA FLATS 784	R 7810	02	HONOLULU	2	21 21	157 48	1640		MID			BOARD OF WTR SUPPLY
PUNALUU PUMP 905.2	8314	01	KOOLAUPOKO	1	21 35	157 54	20				C	MRS. DAVID OELAO
PUNCHBOWL CRATER 709	A 8316	02	HONOLULU	2	21 19	157 51	360		8A			NAT. MEM. CEMETERY
PUPUKA HEIGHTS 896.4	8342	01	WAIALUA	1	21 39	158 02	900				C	JACK N. WHEELER
PUU MANAWAHUA 725.6	8500	03	OAHU	3	21 23	158 05	2080		8A			HUGH HAMILTON
SEA LIFE PARK 724.14	8665	01	OAHU	1	21 19	157 40	40				C	SEA LIFE PARK
TANTALUS PEAK 780	8730	02	HONOLULU	2	21 20	157 49	2000				C	CLOSED 1/3/77
TANTALUS 2 780.5	8738	02	HONOLULU	2	21 20	157 50	1325		7A			R. E. WHITE
UNIV. OF HAWAII 713	A 8815	02	HONOLULU	2	21 18	157 49	79		8A			DEPT. OF GEOSCIENCE
UPPER WAIHAWA 874.3	8838	05	OAHU	5	21 31	158 01	1115		6A			W. B. RUTHERFORD
WAIHAWA DAM 863	A 8945	05	WAIHAWA	5	21 30	158 03	854		7A		C	WAIALUA SUGAR CO. INC.
WAIHOLE 837	A 8964	01	KOOLAUPOKO	1	21 28	157 53	745		8A		C	WAIHOLE WTR CO. LTD.
WAIALAE KAHALA 715	9185	02	HONOLULU	2	21 17	157 47	40		7A			SPENCER TINKER
WAIALEE 896.3	9190	01	KOOLAUPOKO	1	21 41	158 02	33	8A	8A			WAIALEE LIVESK RES. FARM
WAIALUA 847	A 9195	05	WAIALUA	5	21 35	158 07	32	7A	7A		C	WAIALUA SUGAR CO. INC.
WAIANAE 798.2	A 9231	04	WAIANAE	4	21 27	158 11	10		7A			BEN MAYES
WAIANAE KAWIWI 801.1	9234	04	OAHU	4	21 28	158 11	40				C	MOUNTAIN VIEW DAIRY
WAIHAWA 836	A 9261	03	EWA	3	21 28	157 56	800		MO			WAIHOLE WTR CO. LTD.
WAIKANE 885	A 9340	01	KOOLAUPOKO	1	21 30	157 53	760		W1			WAIHOLE WTR CO. LTD.
WAIKIKI 717.2	9397	02	HONOLULU	2	21 16	157 49	10	8A	8A			HONOLULU ZOO
WAILUPE VLY. SCH. 723.6	9500	02	HONOLULU	2	21 18	157 45	180				C	WAILUPE VALLEY SCHOOL
WAIMANALO EXP. FARM	9523	01	KOOLAUPOKO	1	21 20	157 43	60	7A	7A			WAIMANALO EXP. FARM
WAIMANALO NONOKI 795.2	9534	01	OAHU	1	21 20	157 43	120				C	WAIMANALO EXP. FARM
WAIKANE 892	A 9593	05	WAIALUA	5	21 38	158 04	330		7A		C	WAIALUA SUGAR CO. INC.
WAIKANE 750	A 9738	03	EWA	3	21 23	158 01	59		8A			WAIHOLE WATER COMPANY
WILHELMINA RISE 721	R 9980	02	HONOLULU	2	21 18	157 47	1100		MID			BOARD OF WTR SUPPLY
ISLAND OF MOLOKAI												
KALAUPAPA 563	A 2896	01	MOLOKAI	1	21 12	156 59	30		8A			KALAUPAPA SETTLEMENT
KAUNAKAKAI 536	3541	01	MOLOKAI	1	21 06	157 01	12		7A			MOLOKAI RANCH LTD.
KAUNAKAKAI MAUKA 536.5	3547	01	MOLOKAI	1	21 06	157 01	70				C	MOLOKAI GENERAL HOSP.
KEONELELE PENS 551	A 4394	01	MOLOKAI	1	21 12	157 12	560		VAR			MOLOKAI RANCH, LTD.
KUALAPUU 534	A 4778	01	MOLOKAI	1	21 09	157 02	878		7A		C	OEL MONTE CORPORATION
MAUNALO 511	A 6190	01	MOLOKAI	1	21 08	157 13	1070		9A		C	MOLOKAI RANCH COMPANY
MOLOKAI AP 524	6534	01	MOLOKAI	1	21 09	157 06	450	8A	8A			ALOHA AIRLINES
PUU O HOKU RANCH 542.1	8549	01	MOLOKAI	1	21 09	156 44	700		6A		C	PUU O HOKU RANCH
WAIKOLU 540	A 9404	01	MOLOKAI	1	21 08	156 55	3550		W1			MOLOKAI RANCH COMPANY
ISLAND OF LANAI												
KANEPUU 690	A 3130	01	LAHAINA	1	20 52	157 00	1650		W1			U. S. O. A.
KAUNALAPU HARBOR 658	3461	01	LAHAINA	1	20 47	157 00	30		8A		C	DOLE COMPANY
LANAI AIRPORT 656	5275	01	LAHAINA	1	20 48	156 57	1300	8A	8A			HAWAIIAN AIR
LANAI CITY 672	A 5286	01	LAHAINA	1	20 50	156 55	1620	7A	7A		C	DOLE COMPANY

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								TEMP.	PRECIP.	EVAP.	SPECIAL (SEE NOTES)	
ISLAND OF LANAI												
LANAIHALE 684	A 5301	01	LAHAINA	1	20 49	156 53	3370		WI			U S O A
MAHANA 694	A 5704	01	LAHAINA	1	20 52	156 55	1430		MO			U S O A
MALAUER 676	A 6012	01	LAHAINA	1	20 46	156 55	1150		WI			U S O A
WAIKAEKUA 685	A 9021	01	LAHAINA	1	20 47	156 52	2000		WM			KOELE COMPANY
ISLAND OF MAUI												
AUWAHI 252	A 0175	02	HANA	2	20 37	156 20	2060		VAR			ULUPALAKUA RANCH
HAELAAU 477	0790	04	LAHAINA	4	20 57	156 36	2980				5	MAUI LAND-PINEAPPLE CO
HALEAKALA 8 E 5 434	A 0995	01	MAKAWAO	1	20 51	156 18	2100		7A			U OF H AGRIC EXP STA
HALEAKALA RANCH 432	A 0999	01	MAKAWAO	1	20 50	156 19	1850		8A			HALEAKALA RANCH CO
HALEAKALA RS 338	1004	02	MAKAWAO	2	20 46	156 15	7030	8A	8A			HALEAKALA NAT PARK
HALIIMAILE 423	A 1075	01	MAKAWAO	1	20 52	156 21	1070		3A			MAUI LAND-PINEAPPLE CO
HAMAKUAPOKO 485	1086	01	MAKAWAO	1	20 55	156 21	320		5A			HAWAIIAN COM & SUG CO
HANA 354	A 1122	01	HANA	1	20 45	155 59	120		8A		C	HARRY HASEGAWA
HANA AIRPORT 355	1125	01	HANA	1	20 48	156 01	61	8A	8A			ROYAL HAWAIIAN AIRLINES
HOLUA CABIN 259.5	A 1552	02	MAKAWAO	2	20 45	156 13	6930		MO			HALEAKALA NATL PARK RG5
HONOKOHU 480	A 1882	04	LAHAINA	4	20 58	156 36	870		MO			MAUI LAND-PINEAPPLE CO
HONOKOHU 493	A 1887	04	LAHAINA	4	21 00	156 39	135		6A			MAUI LAND-PINEAPPLE CO
HONOLUA FLO 49 494	1914	04	LAHAINA	4	21 01	156 38	125				5	MAUI LAND-PINEAPPLE CO
HONOMANU GULCH 341	A 1935	01	MAKAWAO	1	20 47	156 14	6280		MO			HALEAKALA RANCH CO
IAO NEEOLE 387.2	2208	03	WAILUKU	3	20 53	156 33	1080				C	STATE DIVISION OF PARKS
KAAHAPALI AP 453.1	2307	04	LAHAINA	4	20 56	156 42	8	8A	8A			AMFAC PROPERTIES INC
KAHOMA INTAKE 374	A 2552	04	LAHAINA	4	20 54	156 38	2000		WI			PIONEER MILL CO LTO
KAHULUI WSO 398 AP	R 2572	03	WAILUKU	3	20 54	156 26	48	M10	M10		C J	NATL WEATHER SERVICE
KAILIILI 436	A 2630	01	MAKAWAO	1	20 51	156 16	2520		MO			E MAUI IRR CO LTO
KAILUA 446	2679	01	MAKAWAO	1	20 54	156 13	700	7A	7A			E MAUI IRR CO LTO
KAUAAULA INTAKE 375	A 3433	04	LAHAINA	4	20 53	156 38	1585		WI			PIONEER MILL CO LTO
KAUPO RANCH HOUSE 259	3576	02	HANA	2	20 39	156 08	1020				C	KAUPO RANCH
KEAHUA 410	3910	03	MAKAWAO	3	20 52	156 23	480		5A			HAWAIIAN COM & SUG CO
KEANAE 346	A 4091	01	HANA	1	20 50	156 10	980		MO			E MAUI IRR CO LTO
KEAWAKAPU BEACH 260.2	4193	02	MAKAWAO	2	20 42	156 27	20	8A	8A		C	ALLEN L CORELL
KIHEI 311	4489	03	WAILUKU	3	20 47	156 27	90		7A			HAWAIIAN COM & SUG CO
KIPAHULU 258	4634	01	HANA	1	20 39	156 04	260		7A			HANA RANCH-KIPAHULU SEC
KUIAHA EXP STN	4840	01	MAUI	1	20 54	156 18	920				C	U H AGRICULTURE EXP STN
KUKUI 380	4887	04	LAHAINA	4	20 54	156 35	5788				5	MAUI LAND-PINEAPPLE CO
KULA HEIGHTS 323.2	5003	02	MAKAWAO	2	20 47	156 19	2520		6A		C	KENNETH WILLEY
KULA SANATORIUM 267	5006	02	MAKAWAO	2	20 42	156 22	3004	7A	7A			KULA SANATORIUM
LAHAINA 361	5177	04	LAHAINA	4	20 53	156 41	45	7A	7A		C	PIONEER MILL CO LTO
LAUNIUPOKO INTAKE 376 A	5404	04	LAHAINA	4	20 51	156 37	1280		WI			PIONEER MILL CO LTO
LAUNIUPOKO VILLAGE 372A	5408	04	LAHAINA	4	20 51	156 39	220		7A			PIONEER MILL CO LTO
LUPI UPPER 442	A 5665	01	MAKAWAO	1	20 53	156 15	1240		MO			E MAUI IRR CO LTO
MAHINAHINA 466	A 5715	04	LAHAINA	4	20 57	156 40	715		7A			PIONEER MILL CO LTO
MOKUPEA 475	6521	04	LAHAINA	4	20 59	156 37	1290				5	MAUI LAND-PINEAPPLE CO
NAKALELE FIELD 60 497 A	6645	04	LAHAINA	4	21 02	156 36	340		VAR			MAUI LAND-PINEAPPLE CO
OLINDA 332	A 7040	01	MAKAWAO	1	20 48	156 17	4127		VAR			EAST MAUI IRRIGATION CO
OWALU 296	7059	04	LAHAINA	4	20 49	156 38	7		7A			PIONEER MILL CO LTO
PAAKEA 350	7194	01	HANA	1	20 49	156 07	1260		VAR		C	E MAUI IRR CO LTO
PAIA 406	7566	01	WAILUKU	1	20 55	156 23	170		6A			HAWAIIAN COM & SUG CO
PANILEIHULU 259.2	A 7674	02	HANA	2	20 41	156 08	3570		MO			KAUPO RANCH CO.
PEAHI 488.6	7952	01	MAUI	1	20 54	156 17	830		9A			BERNARD RUPLINGER
POHAKEA BRIDGE 307.2	A 8060	03	WAILUKU	3	20 49	156 31	167		6A			WAILUKU SUGAR CO
POLIPOLI SPRINGS 267.2A	8070	02	MAKAWAO	2	20 41	156 20	6150		VAR			STATE DIV OF FORESTRY
PUOHOKAMOA 2 343	A 8336	01	HANA	1	20 50	156 13	2980		MO			E MAUI IRR CO LTO
PUUNENE 396	8543	03	WAILUKU	3	20 53	156 27	60		7A			HAWAIIAN COM & SUG CO
PUU PAKI 352	A 8553	01	HANA	1	20 46	156 03	2160				5	EAST MAUI IRRIGATION CO
SPRECKELSVILLE 400.2	8688	03	WAILUKU	3	20 54	156 25	85		8A			HAWAIIAN COM & SUG CO
TWIN GATES 261.3	A 8742	03	MAKAWAO	3	20 46	156 23	1310		VAR			KAONOLU RANCH
UKULELE 333	A 8744	01	MAKAWAO	1	20 48	156 15	5230		MO			HALEAKALA RANCH CO
UKUMEHAME 301	A 8750	04	LAHAINA	4	20 48	156 35	75		7A			PIONEER MILL CO LTO
ULUPALAKUA RANCH 250	8760	02	MAKAWAO	2	20 39	156 24	1900		8A		C	ULUPALAKUA RCH CO LTO
WAHIKULI 364	A 8955	04	LAHAINA	4	20 54	156 40	580		8A			PIONEER MILL CO LTO
WAIHEU CAMP 484	A 9275	03	WAILUKU	3	20 55	156 31	320		6A			WAILUKU SUGAR CO
WAIHEE VALLEY 482	A 9315	04	WAILUKU	4	20 57	156 32	300		6A			WAILUKU SUGAR CO
WAIKAMOI 449	A 9332	01	HANA	1	20 52	156 12	1200		MO			E MAUI IRR CO LTO
WAIKAMOI OAM 336	A 9335	01	MAKAWAO	1	20 49	156 14	4320		VAR		C	EAST MAUI IRRIGATION CO
WAIKAPU 390	A 9376	03	WAILUKU	3	20 51	156 31	370		6A			WAILUKU SUGAR CO
WAILUA 1K1 348	A 9460	01	HANA	1	20 48	156 09	2630				5	EAST MAUI IRRIGATION CO

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ISLAND OF MAUI												
WAILUKU 386	A 9484	03	WAILUKU	3	20 54	156 30	180	7A	7A			WAILUKU SUGAR COMPANY HALEAKALA RANCH CO
WAILOPAI RANCH 256	A 9765	02	HANA	2	20 38	156 12	220		0C			
ISLAND OF HAWAII												
AHUA UMI 75	A 0040	05	N KONA	5	19 38	155 47	5220		MO			W.H. GREENWELL RANCH NAT HISTORICAL PARK HONOKAA SUGAR CO MAUNA KEA SUGAR CO HAWAII NAT PARK MAUNA KEA OBSERVATORY HA VOLCANOES NAT PK HOS K L 80ND REX WILLS II NATL WEATHER SERVICE
CITY OF REFUGE 27.4	0344	04	S KONA	4	19 25	155 55	15		9A			
HAUNA 214	0840	01	HAMAKUA	1	20 06	155 28	461		8A			STATE DIV OF FORESTRY CAPT COOK CATTLE CO SHIGETO L TANAKA MAUNA KEA SUGAR CO MAUNA KEA SUGAR CO STATE DIV OF FORESTRY STATE DIV OF FORESTRY HUEHUE RANCH KAU SUGAR COMPANY, INC CAPT COOK INVESTMENT CO
HAKALAU 142	0905	02	S HILO	2	19 54	155 08	105		7A			
HALEMAUMAU 52	A 1033	03	KAU	3	19 24	155 17	3648		MO			RUSSELL P. SMITH KAHUA RANCH COMPANY KONA EXPERIMENT STA FLOYD W MC COY HAWAII VOLCANOES NAT PK PARKER RCH-KAPAPALA DIV PARKER RANCH PARKER RCH-KAPAPALA DIV H E MC NICHOLS DEPT OF PUBLIC WORKS
HALEPOHAKU 111	A 1065	02	HAMAKUA	2	19 46	155 28	9220		3P			
HAWAII VOLCNS NP HO 54	1303	02	KAU	2	19 26	155 16	3971	8A	8A		C	HONOKAA SUGAR CO PUNA SUGAR CO KAU SUGAR COMPANY, INC MRS LILAH MEIER STATE DIV OF FORESTRY STATE DIV OF FORESTRY MAUNA KEA SUGAR CO. K. LYMAN 80ND HONOKAA SUGAR CO STANDARD OIL CO OF CAL
HAWI 168	A 1339	01	N KOHALA	1	20 14	155 50	580		6A		C	
HILO COUNTRY CLUB 86.6	1487	02	HAWAII	2	19 41	155 10	1600		7A		C	KONA VILLAGE RESORT HTL LAUPAHOEHOE SUGAR CO HONOKAA SUGAR CO HONOKAA SUGAR CO ST DEPT OF SOCIAL SER MAUNA LOA OBS. ST DEPT OF SOCIAL SER STATE DEPT OF L&N RES KONA EXPERIMENT STATION STATE DIV OF PARKS
HILO WSO 87 AP	R 1492	02	S HILO	2	19 43	155 04	27	MID	MID		J	
HOLUALOA 70	A 1557	04	N KONA	4	19 38	155 55	3220		MO			PARKER RANCH STATE DIVISION OF PARKS MAUNA KEA OBSERVATORY CAPT COOK CATTLE CO KAHUA RANCH PARKER RCH-KAPAPALA DIV PUNA SUGAR CO KAU SUGAR COMPANY KONA EXPERIMENT STA
HOLUALOA BEACH 68	A 1562	04	N KONA	4	19 37	155 59	14		7A			
HONAUNAU 27	1665	04	S KONA	4	19 27	155 53	1089		7A			HONOKAA SUGAR CO PUNA SUGAR CO KAU SUGAR COMPANY, INC MRS LILAH MEIER STATE DIV OF FORESTRY STATE DIV OF FORESTRY MAUNA KEA SUGAR CO. K. LYMAN 80ND HONOKAA SUGAR CO STANDARD OIL CO OF CAL
HONOHINA 137	1701	02	N HILO	2	19 56	155 09	300		7A			
HONOMO MAUKA 138	1960	02	S HILO	2	19 51	155 09	1100		7A			KONA VILLAGE RESORT HTL LAUPAHOEHOE SUGAR CO HONOKAA SUGAR CO HONOKAA SUGAR CO ST DEPT OF SOCIAL SER MAUNA LOA OBS. ST DEPT OF SOCIAL SER STATE DEPT OF L&N RES KONA EXPERIMENT STATION STATE DIV OF PARKS
HONUAULA 71	A 2047	04	N KONA	4	19 40	155 53	6250		MO			
HUALALAI 72	A 2151	04	N KONA	4	19 42	155 52	8190		MO			PARKER RANCH STATE DIVISION OF PARKS MAUNA KEA OBSERVATORY CAPT COOK CATTLE CO KAHUA RANCH PARKER RCH-KAPAPALA DIV PUNA SUGAR CO KAU SUGAR COMPANY KONA EXPERIMENT STA
HUEHUE 92.1	A 2156	04	N KONA	4	19 45	155 59	1960		6A			
KAAALA IKI 12	A 2249	03	KAU	3	19 08	155 34	1340					HONOKAA SUGAR CO PUNA SUGAR CO KAU SUGAR COMPANY, INC MRS LILAH MEIER STATE DIV OF FORESTRY STATE DIV OF FORESTRY MAUNA KEA SUGAR CO. K. LYMAN 80ND HONOKAA SUGAR CO STANDARD OIL CO OF CAL
KAAHALOA 29	A 2327	04	SOUTH KONA	4	19 30	155 55	1340		8A			
KAHIAWAI 3.4	2512	03	KAU	3	19 08	155 46	3700					KONA VILLAGE RESORT HTL LAUPAHOEHOE SUGAR CO HONOKAA SUGAR CO HONOKAA SUGAR CO ST DEPT OF SOCIAL SER MAUNA LOA OBS. ST DEPT OF SOCIAL SER STATE DEPT OF L&N RES KONA EXPERIMENT STATION STATE DIV OF PARKS
KAHUA RANCH HOTRS	2600	01	HAWAII	1	20 08	155 48	3240					
KAINALIU 73.2	2751	04	N KONA	4	19 32	155 56	1500	7A	7A			PARKER RANCH STATE DIVISION OF PARKS MAUNA KEA OBSERVATORY CAPT COOK CATTLE CO KAHUA RANCH PARKER RCH-KAPAPALA DIV PUNA SUGAR CO KAU SUGAR COMPANY KONA EXPERIMENT STA
KALAOA 69.22	2887	04	HAWAII	4	19 44	155 59	2000		8A			
KALAPANA 1 67.8	2894	02	S HILO	2	19 20	155 02	10		VAR			HONOKAA SUGAR CO PUNA SUGAR CO KAU SUGAR COMPANY, INC MRS LILAH MEIER STATE DIV OF FORESTRY STATE DIV OF FORESTRY MAUNA KEA SUGAR CO. K. LYMAN 80ND HONOKAA SUGAR CO STANDARD OIL CO OF CAL
KAMAOA 2 5	A 3048	03	KAU	3	19 02	155 40	1375		WI			
KAMUELA 192.2	3077	01	S KOHALA	1	20 01	155 40	2670	6A	6A			KONA VILLAGE RESORT HTL LAUPAHOEHOE SUGAR CO HONOKAA SUGAR CO HONOKAA SUGAR CO ST DEPT OF SOCIAL SER MAUNA LOA OBS. ST DEPT OF SOCIAL SER STATE DEPT OF L&N RES KONA EXPERIMENT STATION STATE DIV OF PARKS
KAPAPALA RANCH 36	A 3300	03	KAU	3	19 17	155 27	2140		6A			
KAPOHO BEACH 93.11	3368	02	HAWAII	1	19 30	154 49	10	8A	8A			PARKER RANCH STATE DIVISION OF PARKS MAUNA KEA OBSERVATORY CAPT COOK CATTLE CO KAHUA RANCH PARKER RCH-KAPAPALA DIV PUNA SUGAR CO KAU SUGAR COMPANY KONA EXPERIMENT STA
KAPOHO LANDING 93.5	A 3369	02	PUNA	2	19 30	154 52	290		VAR			
KAWAINUI LOWER 193	A 3770	01	HAMAKUA	1	20 05	155 39	1080		WI			HONOKAA SUGAR CO PUNA SUGAR CO KAU SUGAR COMPANY, INC MRS LILAH MEIER STATE DIV OF FORESTRY STATE DIV OF FORESTRY MAUNA KEA SUGAR CO. K. LYMAN 80ND HONOKAA SUGAR CO STANDARD OIL CO OF CAL
KEAAU 92	3872	02	PUNA	2	19 38	155 02	285	8A	8A			
KEAIIWA CAMP 22.1	3925	03	KAU	3	19 14	155 29	1700					KONA VILLAGE RESORT HTL LAUPAHOEHOE SUGAR CO HONOKAA SUGAR CO HONOKAA SUGAR CO ST DEPT OF SOCIAL SER MAUNA LOA OBS. ST DEPT OF SOCIAL SER STATE DEPT OF L&N RES KONA EXPERIMENT STATION STATE DIV OF PARKS
KEALAKEKUA 2 28.7	3980	04	S KONA	4	19 30	155 55	1450	8A	8A			
KEANAKOLU CAMP 124.2	4098	02	HAMAKUA	2	19 55	155 21	5280					PARKER RANCH STATE DIVISION OF PARKS MAUNA KEA OBSERVATORY CAPT COOK CATTLE CO KAHUA RANCH PARKER RCH-KAPAPALA DIV PUNA SUGAR CO KAU SUGAR COMPANY KONA EXPERIMENT STA
KIOLAKAA A & F 6	A 4625	03	KAU	3	19 04	155 38	1925		MO			
KIPA 89.2	A 4632	02	S HILO	2	19 44	155 09	1490		WI			HONOKAA SUGAR CO PUNA SUGAR CO KAU SUGAR COMPANY, INC MRS LILAH MEIER STATE DIV OF FORESTRY STATE DIV OF FORESTRY MAUNA KEA SUGAR CO. K. LYMAN 80ND HONOKAA SUGAR CO STANDARD OIL CO OF CAL
KOHALA MISSION 175.1	4680	01	N KOHALA	1	20 14	155 48	537	7A	7A			
KOIAWE LOWER 196	A 4685	01	HAMAKUA	1	20 05	155 38	720		WI			KONA VILLAGE RESORT HTL LAUPAHOEHOE SUGAR CO HONOKAA SUGAR CO HONOKAA SUGAR CO ST DEPT OF SOCIAL SER MAUNA LOA OBS. ST DEPT OF SOCIAL SER STATE DEPT OF L&N RES KONA EXPERIMENT STATION STATE DIV OF PARKS
KONA (KAILUA) 68.3	A 4764	04	N KONA	4	19 39	156 00	30	8A	8A		C	
KONA VILLAGE 93.8	4765	04	N KONA	4	19 50	155 59	20		8A			PARKER RANCH STATE DIVISION OF PARKS MAUNA KEA OBSERVATORY CAPT COOK CATTLE CO KAHUA RANCH PARKER RCH-KAPAPALA DIV PUNA SUGAR CO KAU SUGAR COMPANY KONA EXPERIMENT STA
KUKAIAU 222	4815	01	HAMAKUA	1	20 02	155 21	840		6A			
KUKUIHALE HIC 199	4928	01	HAMAKUA	1	20 07	155 35	980		6A			HONOKAA SUGAR CO PUNA SUGAR CO KAU SUGAR COMPANY, INC MRS LILAH MEIER STATE DIV OF FORESTRY STATE DIV OF FORESTRY MAUNA KEA SUGAR CO. K. LYMAN 80ND HONOKAA SUGAR CO STANDARD OIL CO OF CAL
KUKUIHALE MILL 206	4938	01	HAMAKUA	1	20 08	155 34	300		6A			
KULANI CAMP 79	5011	02	S HILO	2	19 33	155 18	5170	8A	8A			KONA VILLAGE RESORT HTL LAUPAHOEHOE SUGAR CO HONOKAA SUGAR CO HONOKAA SUGAR CO ST DEPT OF SOCIAL SER MAUNA LOA OBS. ST DEPT OF SOCIAL SER STATE DEPT OF L&N RES KONA EXPERIMENT STATION STATE DIV OF PARKS
KULANI MAUKA 76	A 5018	05	N HILO	5	19 35	155 27	8300		VAR			
KULANI SCHOOL SITE 78	A 5021	02	S HILO	2	19 35	155 20	5735		WI			PARKER RANCH STATE DIVISION OF PARKS MAUNA KEA OBSERVATORY CAPT COOK CATTLE CO KAHUA RANCH PARKER RCH-KAPAPALA DIV PUNA SUGAR CO KAU SUGAR COMPANY KONA EXPERIMENT STA
LALAMILLO FLD OFF 191.1	5260	01	S KOHALA	1	20 01	155 41	2615					
LANIHAU 68.2	5330	04	N KONA	4	19 40	155 58	1530		7A			HONOKAA SUGAR CO PUNA SUGAR CO KAU SUGAR COMPANY, INC MRS LILAH MEIER STATE DIV OF FORESTRY STATE DIV OF FORESTRY MAUNA KEA SUGAR CO. K. LYMAN 80ND HONOKAA SUGAR CO STANDARD OIL CO OF CAL
LAVA TREE PARK 66.1	5460	02	PUNA	2	19 29	154 54	650					
MAKAHALAU 103	5761	02	HAWAII	1	19 59	155 33	3820		6A			KONA VILLAGE RESORT HTL LAUPAHOEHOE SUGAR CO HONOKAA SUGAR CO HONOKAA SUGAR CO ST DEPT OF SOCIAL SER MAUNA LOA OBS. ST DEPT OF SOCIAL SER STATE DEPT OF L&N RES KONA EXPERIMENT STATION STATE DIV OF PARKS
MANUKA 2	A 6134	03	KAU	3	19 07	155 50	1760		WI			
MAUNA KEA 085 111.2	6183	02	HAWAII	2	19 49	155 28	3770		7P			PARKER RANCH STATE DIVISION OF PARKS MAUNA KEA OBSERVATORY CAPT COOK CATTLE CO KAHUA RANCH PARKER RCH-KAPAPALA DIV PUNA SUGAR CO KAU SUGAR COMPANY KONA EXPERIMENT STA
MAUNA LOA SLOPE 085	6198	05	HAMAKUA	5	19 32	155 35	1150	9A	9A			
MIDDLE HOLUALOA 68.1	A 6268	04	N KONA	4	19 37	155 58	500		7A			HONOKAA SUGAR CO PUNA SUGAR CO KAU SUGAR COMPANY, INC MRS LILAH MEIER STATE DIV OF FORESTRY STATE DIV OF FORESTRY MAUNA KEA SUGAR CO. K. LYMAN 80ND HONOKAA SUGAR CO STANDARD OIL CO OF CAL
MIDDLE PEN 147.1	A 6270	01	N KOHALA	1	20 06	155 50	1380		VAR			
MOAULA 18	A 6407	03	KAU	3	19 11	155 30	600					KONA VILLAGE RESORT HTL LAUPAHOEHOE SUGAR CO HONOKAA SUGAR CO HONOKAA SUGAR CO ST DEPT OF SOCIAL SER MAUNA LOA OBS. ST DEPT OF SOCIAL SER STATE DEPT OF L&N RES KONA EXPERIMENT STATION STATE DIV OF PARKS
MOUNTAIN VIEW 91	6552	02	PUNA	2	19 33	155 07	1530	6A	6A			
NAALEHU 14	A 6588	03	KAU	3	19 04	155 35	800	8A	8A			PARKER RANCH STATE DIVISION OF PARKS MAUNA KEA OBSERVATORY CAPT COOK CATTLE CO KAHUA RANCH PARKER RCH-KAPAPALA DIV PUNA SUGAR CO KAU SUGAR COMPANY KONA EXPERIMENT STA
NAPOOPOO 28	A 6697	04	S KONA	4	19 28	155 55	395		7A			
OOKALA 223	7131	02	N HILO	2	20 01	155 17	430	7A	7A			HONOKAA SUGAR CO PUNA SUGAR CO KAU SUGAR COMPANY, INC MRS LILAH MEIER STATE DIV OF FORESTRY STATE DIV OF FORESTRY MAUNA KEA SUGAR CO. K. LYMAN 80ND HONOKAA SUGAR CO STANDARD OIL CO OF CAL
OPIHIHALE 2 24.1	7166	04	S KONA	4	19 16	155 53	1270	7A	7A			
ORCHID LAND EST 91.5	A 7185	02	PUNA	2	19 34	155 00	445		VAR			LAUPAHOEHOE SUGAR CO MRS LORMA TRUMAN BOARD OF WATER SUPPLY

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STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES				OBSERVER
								TEMP.	PRECIP.	EVAP.	SPECIAL (SEE NOTES)	
ISLAND OF HAWAII												
PAAUHAU 217	7204	01	HAMAKUA	1	20 05	155 26	415		8A		C	HONOKAA SUGAR COMPANY
PAAUILO 221	7312	01	HAMAKUA	1	20 03	155 22	800		7A			LAUPAHOEHOE SUGAR CO
PAHALA 21	A 7421	03	KAU	3	19 12	155 29	870	8A	6A			KAU SUGAR COMPANY, INC
PAHOA 65	7457	02	PUNA	2	19 30	154 57	670		6A			PUNAH SUGAR COMPANY
PAKAO 37	A 7643	03	KAU	3	19 22	155 28	5000		M0			PARKER RCH-KAPAPALA DIV
PAPAIKOU 144.1	7711	02	S HILO	2	19 47	155 06	260		7A			MAUNA KEA SUGAR CO
PAPAIKOU MAUKA 140.1	7721	02	S HILO	2	19 47	155 08	1270		7A			MAUNA KEA SUGAR CO
PIIHONUA 89	A 8051	02	S HILO	2	19 44	155 10	1730		M0			STATE DIV OF FORESTRY
POHAKULOA 107	A 8063	02	HAMAKUA	2	19 45	155 32	6511		W1		C	STATE DIVISION OF PARKS
PUUKOHOLA HEIAU 98.1	8422	05	HAWAII	5	20 02	155 50	140	8A	8A			SUPT PUU HEIAU-NHS
PUU LEHUA 73	A 8460	04	N KONA	4	19 34	155 49	4880		M0			W.H. GREENWELL RANCH
PUU WAAWAA 94.1	A 8555	05	N KONA	5	19 47	155 51	2520		7A		C	PUU WAAWAA RANCH CO
SAOOLE ROAD 1 84	A 8590	02	S HILO	2	19 42	155 12	2340		WM			BOARD OF WTR SUPPLY
SOUTH KONA 2.31	8650	03	HAWAII	3	19 06	155 45	2650	8A	8A			MRS CAROLYN CARLSON
SOUTH POINT CORRAL 3	A 8675	03	KAU	3	18 57	155 41	500		W1			PARKER RCH-KAPAPALA DIV
UPOLU POINT USCG 159.2	8830	01	N KOHALA	1	20 15	155 53	61	8A	8A			U S COAST GUARD
WAIKEA 500 88.2	9025	02	S HILO	2	19 40	155 08	1050		7A			SHINICHI KANESHIRO
WAIKALOA-8015 CAS 95.8	9142	04	HAWAII	5	19 56	155 48	900		8A			BOISE CASCADES WA CONST
WAIKANONOULA 178.6	9350	01	N KOHALA	1	20 08	155 47	3830				C	CLOSED 1/24/77
CLOSED STATIONS												
ISLAND OF OAHU												
TANTALUS PEAK 780	8730	02	HONOLULU	2	21 20	157 49	2000				C	CLOSED 1/3/77
ISLAND OF HAWAII												
WAIKANONOULA 178.6	9350	01	N KOHALA	1	20 08	155 47	3830				C	CLOSED 1/24/77
NEW STATIONS												
ISLAND OF HAWAII												
KAHUA RANCH HOTRS	2600	01	HAWAII	1	20 08	155 48	3240				C	KAHUA RANCH COMPANY
KUKUIHALE MILL 206	4938	01	HAMAKUA	1	20 08	155 34	300		6A			HONOKAA SUGAR CO

SEE REFERENCE NOTES FOLLOWING STATION INDEX

## STATION INDEX

HAWAII AND PACIFIC  
FEBRUARY 1977

STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES				OBSERVER
								TEMP.	PRECIP.	EVAP.	SPECIAL (SEE NOTES)	
PACIFIC												
EAST OF 180TH MERIDIAN												
CANTON ISLAND	4101	02	PHOENIX IS		2 46N	171 43W	8	9A	9A			ITT/FEDERAL ELEC CORP
FAGA ALU RESERVOIR	4135	03	AMER SAMOA		14 18S	170 42W	820		8A			PUBLIC WORKS
FALEASAO VILLAGE	4248	03	TA'U'MAN		14 14S	169 31W	16		8A			SOLOMULI MALU'IA
JOHNSTON WSO AP	R 4320	01	LINE ISLANDS		16 44N	169 31W	7	MID	MID	7A	J	NATL WEATHER SERVICE
LEONE	4397	03	TUTUILA		14 21S	170 47W	20	6P	6P			ST THERESA SCHOOL
FRENCH FRIGATE SHOALS	4401	07			23 52N	166 17W	6	8P	8A			U S COAST GUARD
MIDWAY SAND ISLAND	4490	07			28 13N	177 21W	10	MID	MID			U S NAVY
PAGO PAGO WSO AP	R 4690	03	AMER SAMOA		14 20S	170 43W	12	MID	MID		J	NATL WEATHER SERVICE
SWAINS ISLAND	4822	01	AMER SAMOA		11 03S	171 05W	6	MID	MID			AMERICAN SAMOA RAO STA
WESTERN PACIFIC ISL. NORTH OF 12 N												
<ANDERSEN AF8 GUAM	4025	03	MARIANNA IS		13 35N	144 55E	624	MID	MID			AIR WEATHER SERVICE
<CLARK AF8 LUZON	4100	06	PHILIPPINE I		15 11N	120 33E	475	MID	MID			U S AIR FORCE
GUAM NAS	4226	03	MARIANNA IS		13 29N	144 48E	254	MID	MID			U S NAVY
GUAM WSMO	R 4229	03	MARIANNA IS		13 33N	144 50E	361	10A	10A	10A	J	NATL WEATHER SERVICE
MANGILAO	4468	03	GUAM		13 27N	144 49E	60		7A			GUAM AGRICULTURAL STA
ROTA	4800	03	MARIANNA IS		14 08N	145 09E	47		8A			DIST ADMINISTRATOR
SAIPAN LORAN	4860	03	MARIANNA IS		15 08N	145 42E	9	10A	10A			U S C G LORAN STATION
WAKE WSO AP	R 4901	01			19 17N	166 39E	11	MID	MID		J	NATL WEATHER SERVICE
CAROLINE AND MARSHALL ISLANDS												
ANGUAR	4030	02	CAROLINE IS		6 55N	134 09E	15		8A			USCG LORAN STATION
ENIWETAK	4165	01	MARSHALL IS.		11 21N	162 21E	10	MID	MID			U S COAST GUARD
FALALOP I. ULITHI	4185	02	CAROLINE IS		10 02N	139 48E	6	10P	10P			PRINCIPAL-ULITHI H-SCH
KAPINGAMARANGI ATOLL	4325	01	PONAPE		1 05N	154 48E	10	MID	MID			ERSIN HADUET
KOROR WSO	R 4351	02	CAROLINE IS		7 20N	134 29E	94	MID	MID		J	NATL WEATHER SERVICE
KWAJALEIN MISSILE RGN	R 4375	01	MARSHALL IS		8 44N	167 44E	7	12M	12M		J	KMR WEATHER SERVICE
LELE I. KUSAIE	4395	02	CAROLINE IS		5 20N	163 02E	7	MID	MID			JULIAN E ROBERT
MAJURO WSO AP	R 4460	02	MARSHALL IS		7 05N	171 23E	10	MID	MID		J	NATL WEATHER SERVICE
METALANIM	4482	02	PONAPE		6 51N	158 19E	30	8A	8A			REV E. A. SOUCIE
MOKIL ATOLL	4490	02	PONAPE DIST.		6 41N	159 47E	27		5P			ESHIAM BEN
NGASANG.8ABELTHUAP	4580	01	PALAU ISLAND		7 38N	134 39E	10		8A			BETHANIA SEMINARY
PONAPE WSO	R 4751	02	CAROLINE IS		6 58N	158 13E	123	MID	MID		J	NATL WEATHER SERVICE
SATAWAN ATOLL	4814	02	CAROLINE IS		5 20N	153 44E	9	MID	MID			ANTER EKO
TRUK. MOEN I. WSO AP	R 4851	02	CAROLINE IS		7 28N	151 51E	5	MID	MID		J	NATL WEATHER SERVICE
WOLEAI ATOLL	4911	01	CAROLINE IS		7 23N	143 55E	7	MID	MID			HASUGULIMAR/HALEYEMAI
YAP WSO AP	R 4951	02	CAROLINE IS		9 29N	138 05E	44	MID	MID		J	NATL WEATHER SERVICE

SEE REFERENCE NOTES FOLLOWING STATION INDEX

Additional information regarding the climates of Hawaii and the Pacific Ocean Area may be obtained by writing to the National Climatic Center, Federal Building, Asheville, N.C. 28801, or to any National Weather Service Office near you. Additional precipitation data for Hawaii are contained in "HOURLY PRECIPITATION DATA HAWAII."

**DIMENSIONAL UNITS:** Unless otherwise indicated, dimensional units used in this bulletin are: Temperature in °F., precipitation and evaporation in inches, and wind movement in miles. In "Supplemental Data" table directions entered in figures are tens of degrees. Resultant wind is the vector sum of wind directions and speeds divided by the number of observations.

**OBSERVATION TIME:** Data in the "Monthly Extremes," "Daily Precipitation" table, "Daily Temperature" table, and "Evaporation and Wind" table are for the 24 hours ending at time of observation unless indicated otherwise by reference letters in the Station Index. The Station Index shows observation time in local standard time.

**EVAPORATION** is measured in the standard Weather Service-type pan of 4-foot diameter unless otherwise noted below in the Evaporation and Wind table. Max and Min values in the Evaporation and Wind table are extremes of temperature of water in pan as recorded during 24 hours ending at time of observation. Wind is the total wind movement in miles over the evaporation pan as determined by a continuous anemometer recorder located 6.8 inches above the pan.

**NORMALS** for all stations are climatological standard normals based on the period 1941-1970.

**STATION NAMES:** Hawaii state key numbers are included following station names in the several tables.

**LATE REPORTS AND CORRECTIONS** will be carried only in the June and December issues of this bulletin.

**INTERPOLATED VALUES** for monthly precipitation totals may be found in the annual issue of this publication.

**IN THE DATA TABLES THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING:**

- No record in the "Supplemental Data" table, "Daily Precipitation" table, "Evaporation and Wind" table, and the Station Index.
- No record in the "Monthly Summarized Data" table and the "Daily Temperature" table is indicated by no entry.
- + And also on an earlier date or dates.
- Highest observed one minute windspeed. This station is not equipped with an instrument to measure fastest mile data.
- \* Amount included in following measurement, time distribution unknown.
- < Maximum and minimum temperatures are the highest and lowest hourly readings for each day.
- ‡ Extreme occurred at station with incomplete data which may have been exceeded
- A The letter "A" shown following station name in "Monthly Summarized Data" table, "Daily Precipitation" table, and "Station Index," indicates amount carried in the "Total" column is for the period from last measurement of a preceding month through the last measurement of the current month. See "Daily Precipitation" table of this and previous bulletins for dates of measurement. Where gages are read only once monthly, measurements made on the first of a month are credited to the last day of the preceding month.
- B Adjusted to a full month.
- M One or more days of record missing; if average value is entered, less than 10 days record is missing. See "Daily Temperature" table for detailed daily record.
- R Amounts from recording gage.
- T Trace, an amount too small to measure.
- V Includes total for previous month.

**IN THE STATION INDEX THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING:**

- AR Observation made after rain.
- C In Special Column of Station Index indicates Recording Rain Gage Station. Hourly Precipitation values are processed for special purposes, and are published later in the "Hourly Precipitation Data" bulletin. If daily amounts are published in "Monthly Summarized Data" bulletin they are from a separate non-recording gage, except where indicated by reference "R". Such amounts may differ from amounts published from the recording gage in the "Hourly Precipitation Data" bulletin.
- J "Supplemental Data" table.
- MO Gage read once monthly; usually on the last day.
- OC Gage readings at periods varying from a few weeks to several months.
- S Storage precipitation station. Precipitation measurements, made at irregular intervals, are published in the annual issue of this publication, beginning with the 1977 data. Prior data are found in the "Storage-Gage Precipitation Data" Bulletin, which was discontinued with the 1976 issue.
- SS Observation time is near sunset.
- VAR Observation time is variable.
- WI Gage read weekly or irregularly only.
- WM Gage read weekly and last day of month.
- # Thermometers are generally exposed in a shelter located a few feet above sod-covered ground; however, this reference indicates that the thermometers are exposed in a shelter located on the roof of a building.
- ‡ DRAINAGE CODE: KAUAI: 1-NORTHERN 2-SOUTHEASTERN 3-SOUTHWESTERN OAHU: 1-WINDWARD KOOLA 2-HONOLULU 3-SOUTH CENTRAL 4-WESTERN 5-NORTH CENTRAL MOLOKAI: 1-(NO INTRA-ISLAND DIVISIONS) LANAI: 1-(NO INTRA-ISLAND DIVISIONS) MAUI: 1-NORTHEASTERN 2-SOUTHERN 3-CENTRAL 4-WESTERN HAWAII: 1-NORTHERN 2-EASTERN 3-SOUTHERN 4-WESTERN 5-CENTRAL

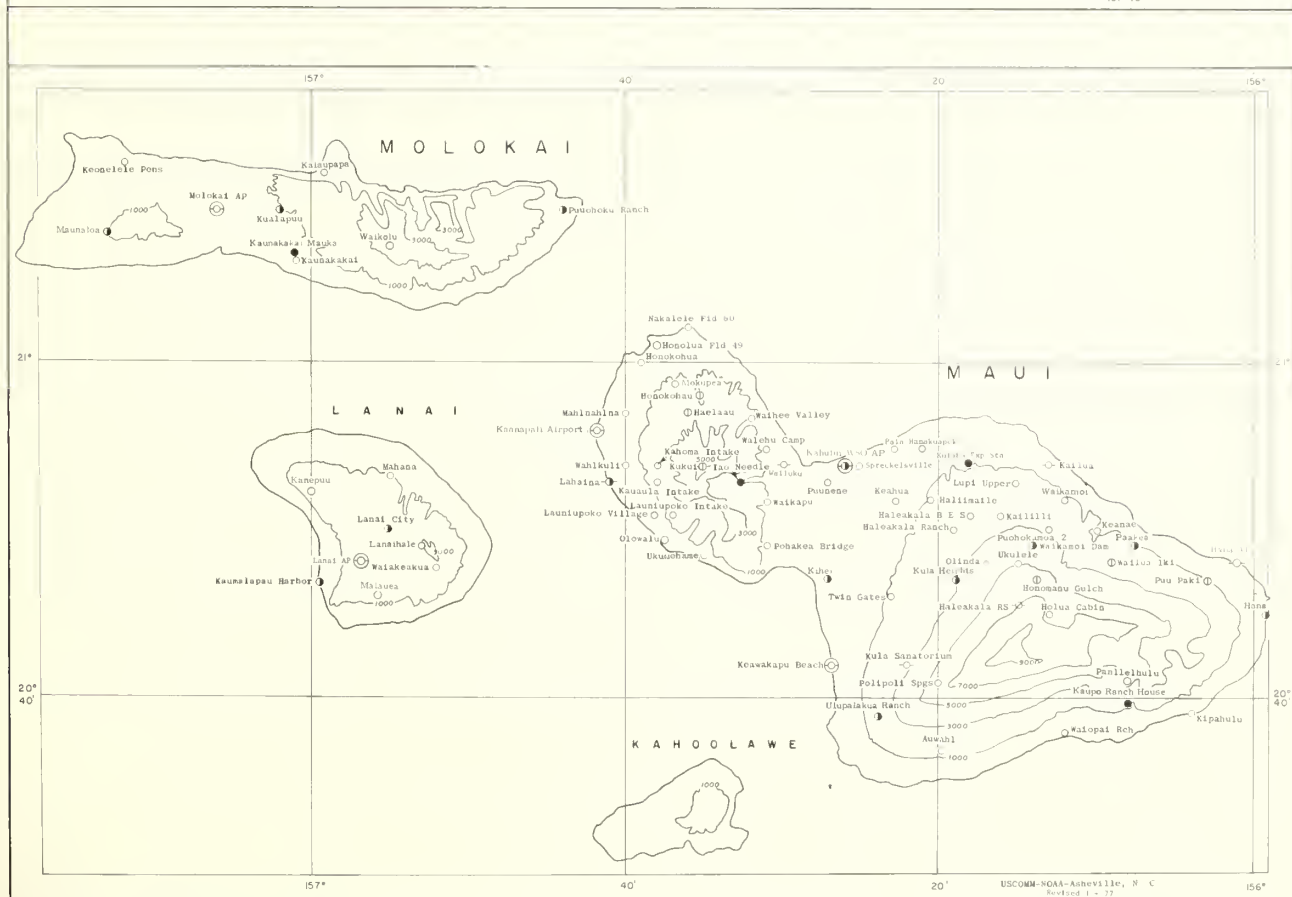
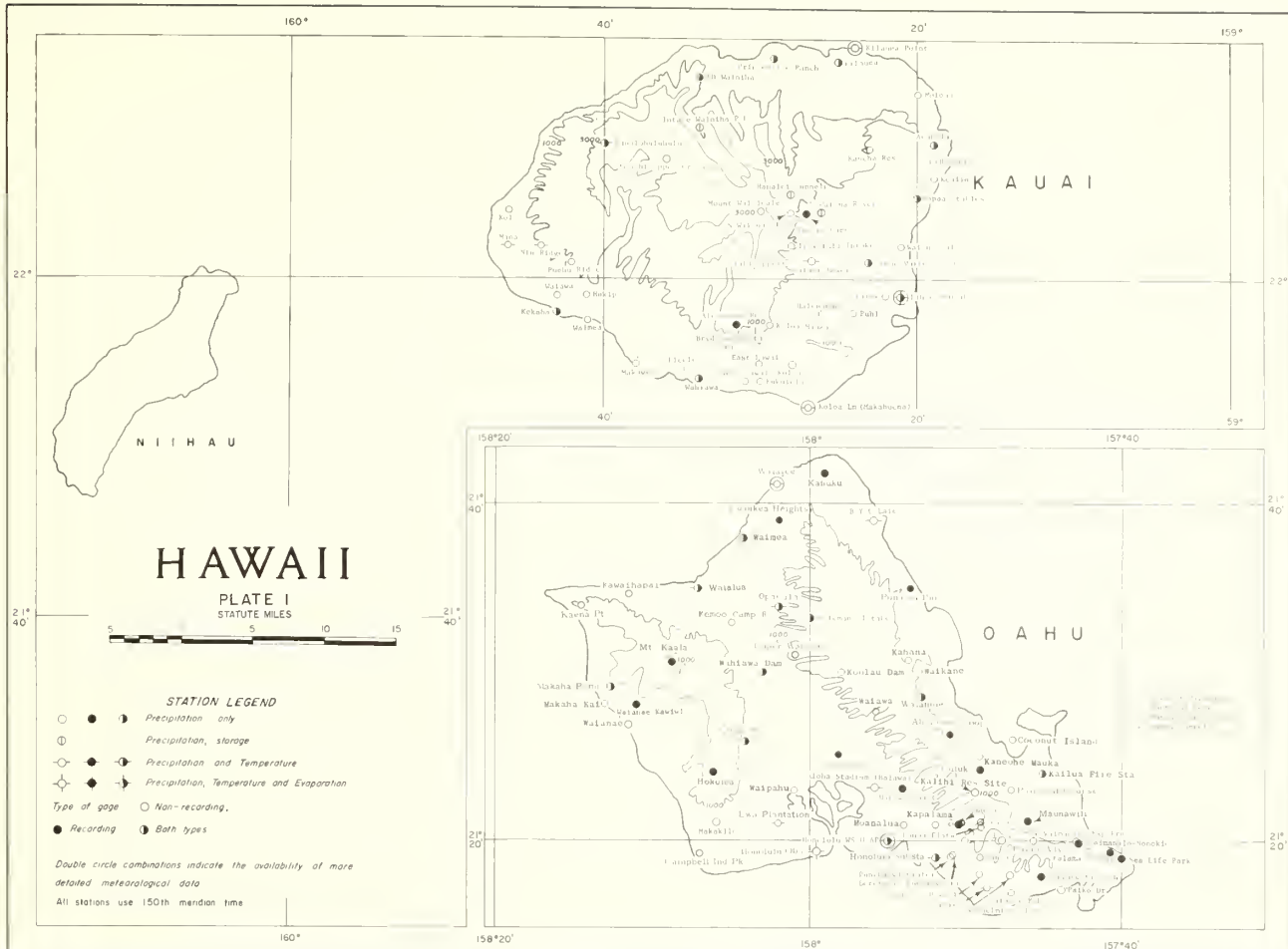
Stations appearing in the tables with no data were either missing or received too late to be included in this issue.

The Pacific includes stations in the Trust Territory of the Pacific Islands, Territory of Guam, American Samoa, and other scattered islands and atolls.

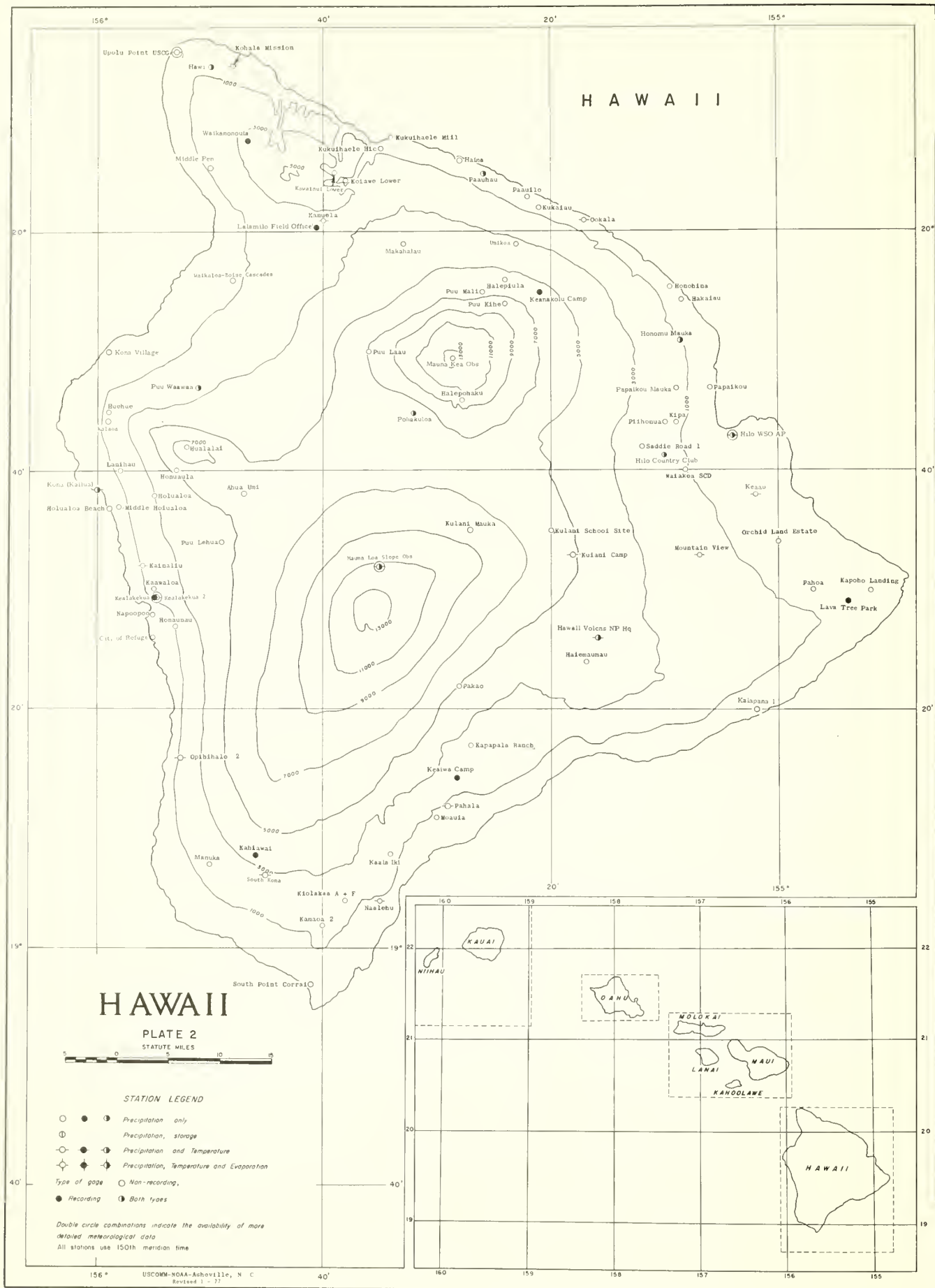
General weather conditions in the U.S. for each month are described in the CLIMATOLOGICAL DATA NATIONAL SUMMARY and STORM DATA.

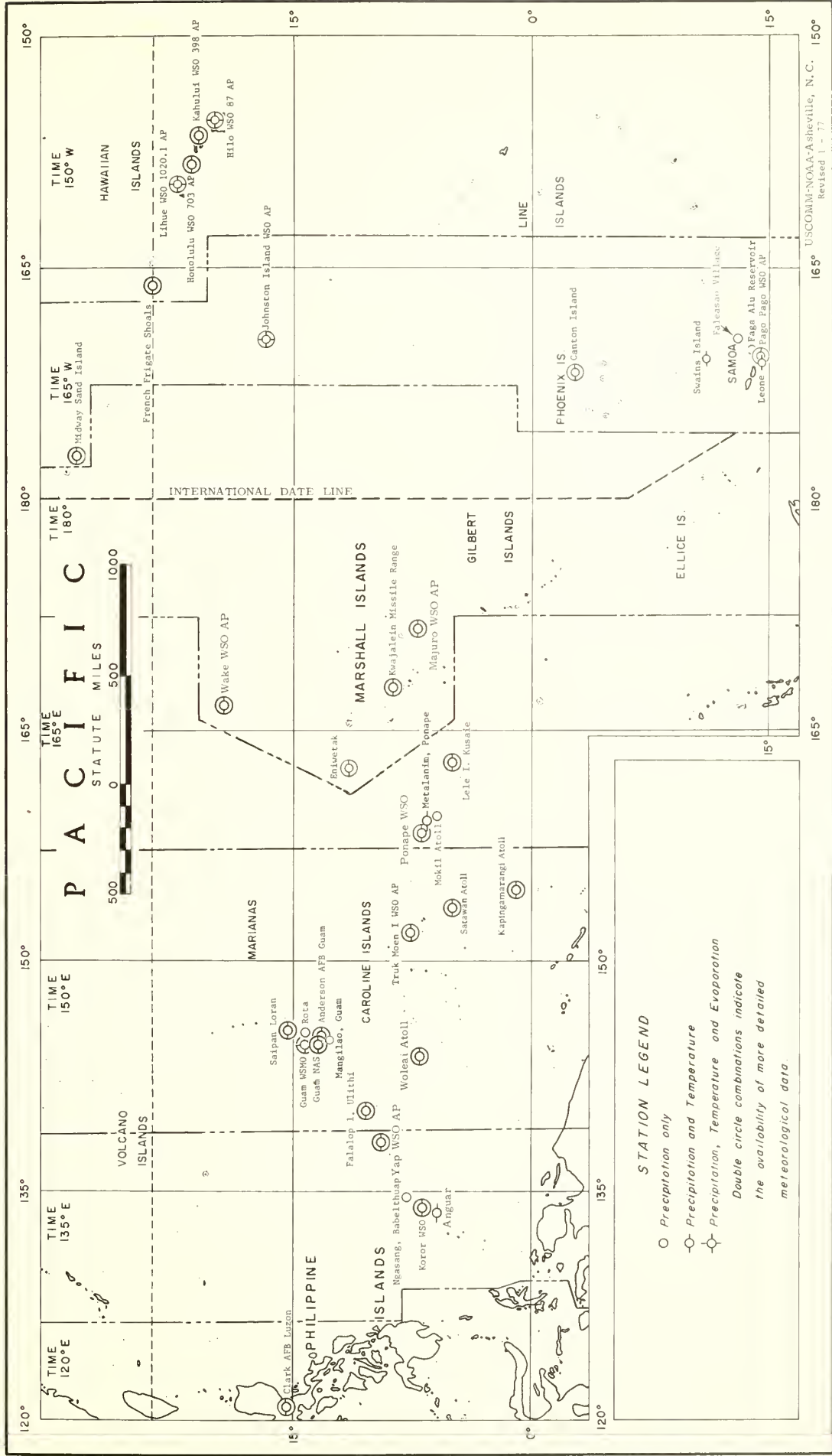
Information concerning the history of changes in locations, elevations, exposure, etc., of substations through 1957 may be found in the publication "Substation History" for this State, price 40 cents. Similar information for regular National Weather Service Offices may be found in the latest annual issue of Local Climatological Data, price 20 cents. These publications may be obtained from the National Climatic Center at the address shown above.

Subscription Price: \$5.10 a year for each section including annual summary; \$5.55 additional for foreign mailing, 40¢ single copy; 30¢ annual summary. Make checks payable to Department of Commerce, NOAA; send payments and orders to: National Climatic Center, Federal Building, Asheville, N. C. 28801. Attn: Publications.



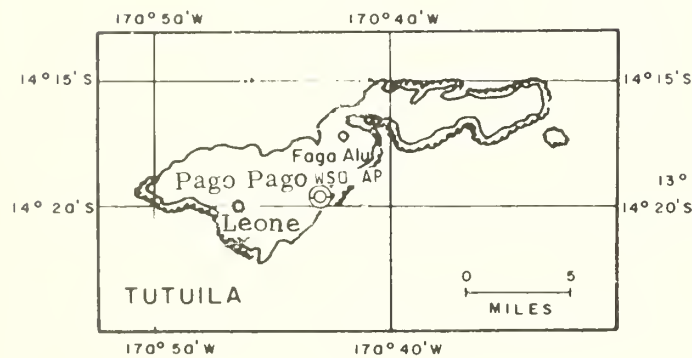
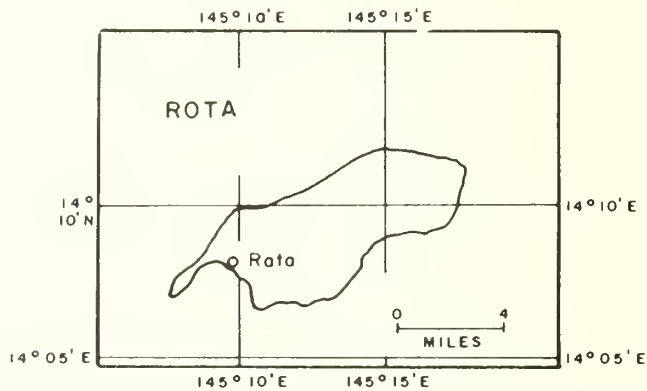
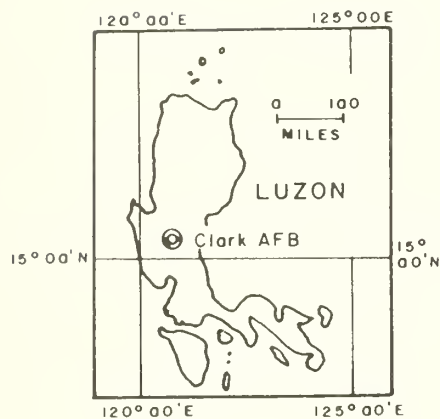
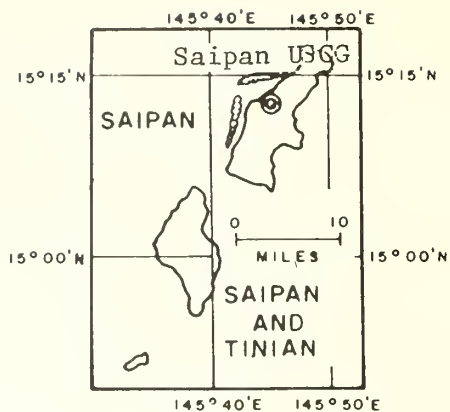
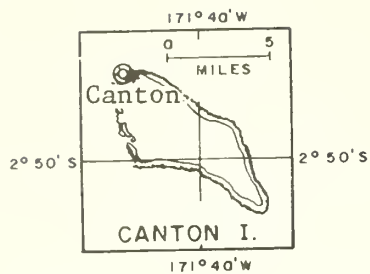




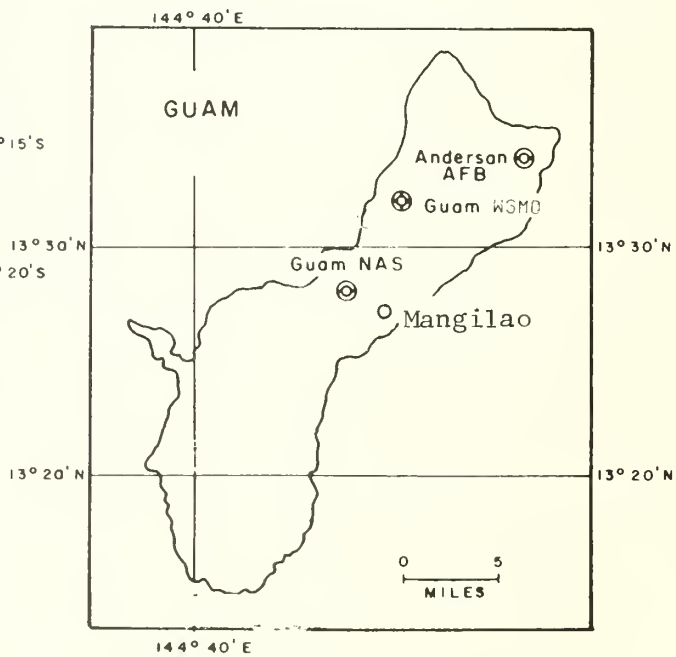


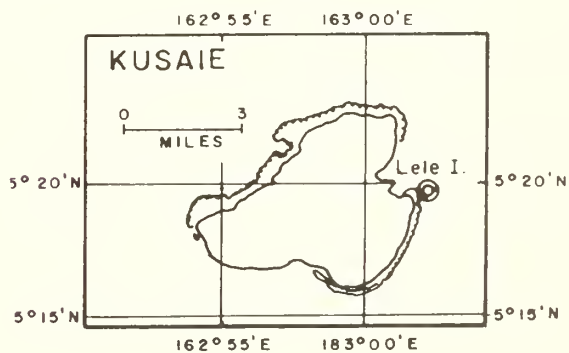
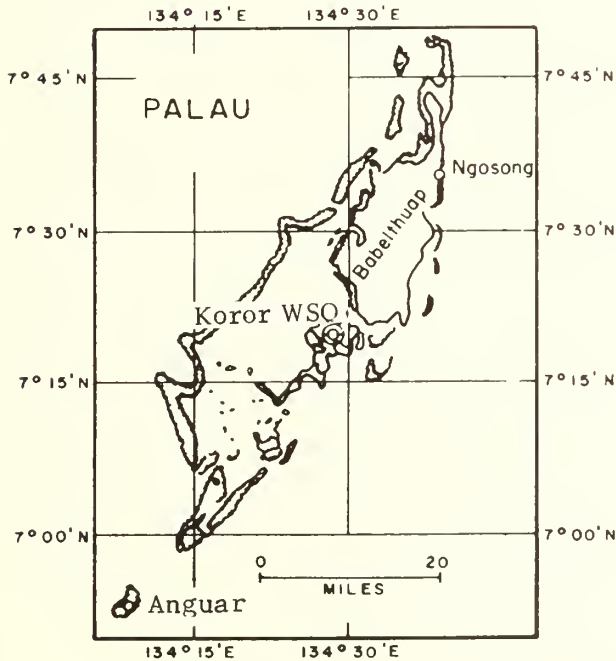
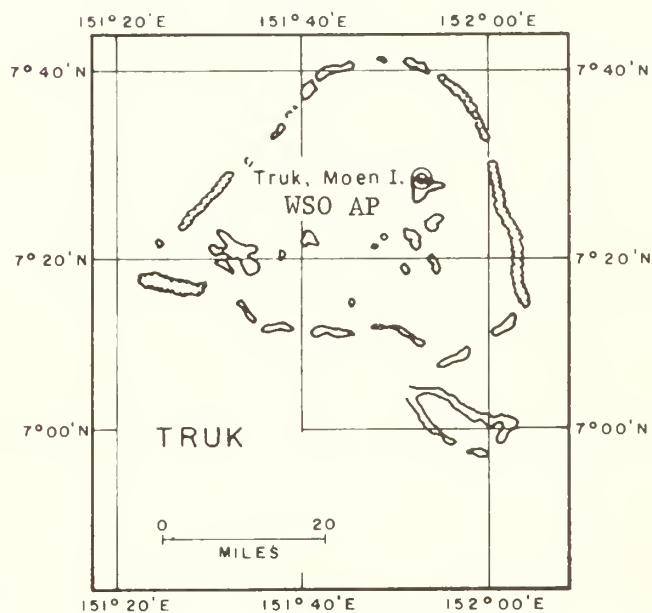
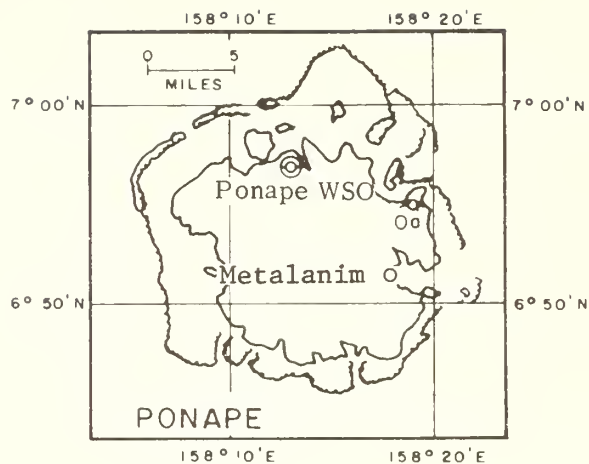
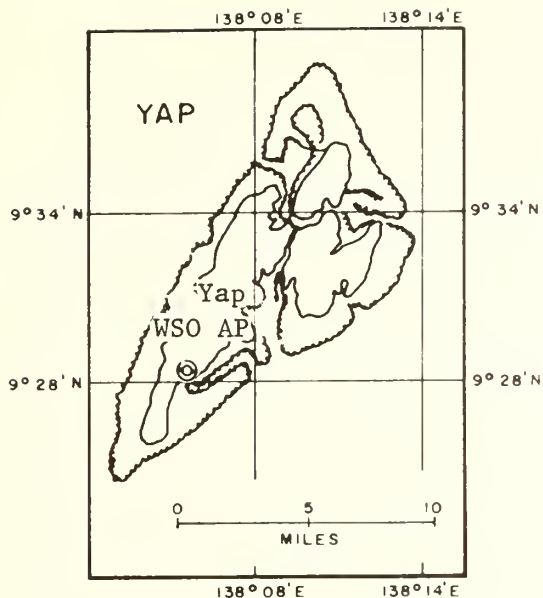
### STATION LEGEND

- Precipitation only
  - ⊖ Precipitation and Temperature
  - ⊕ Precipitation, Temperature and Evaporation
- Double circle combinations indicate the availability of more detailed meteorological data.

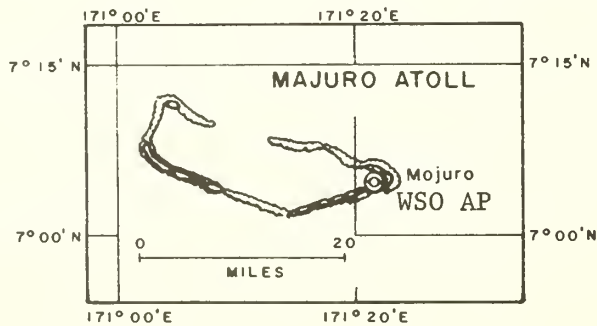
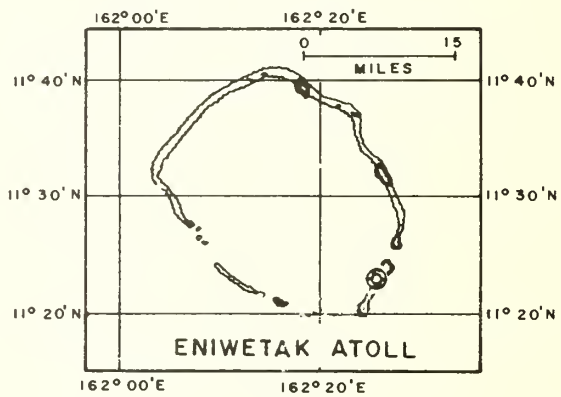
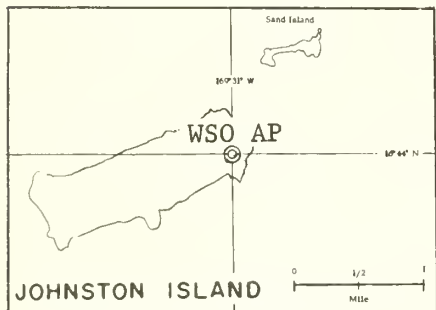
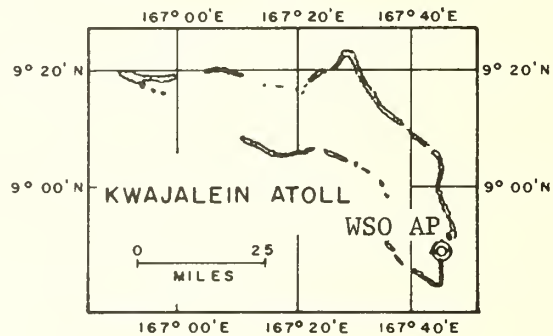
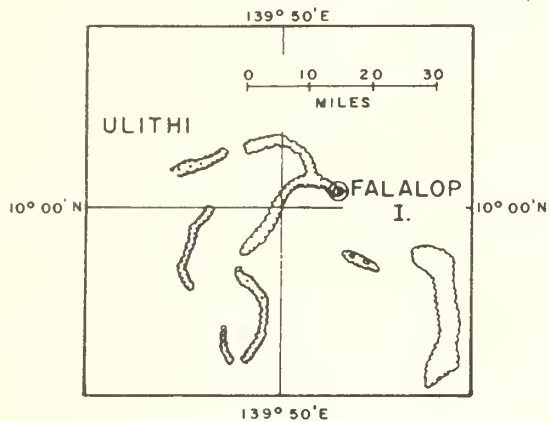
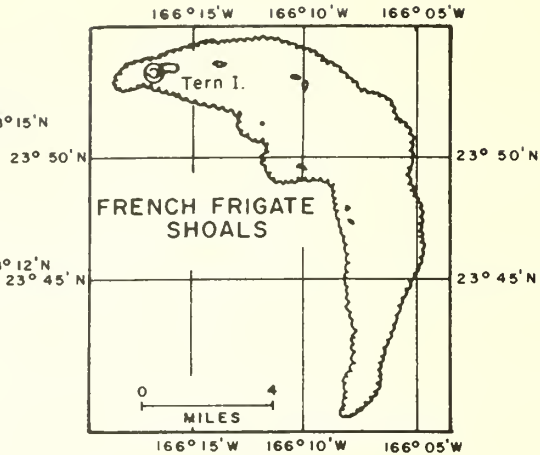
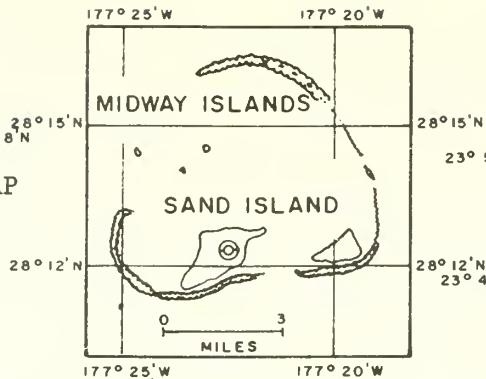
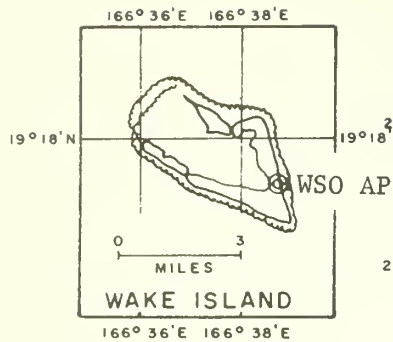


Reef





— Reef







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**THIRD CLASS**

# Climatological Data



## HAWAII AND PACIFIC

### TEMPERATURE AND PRECIPITATION EXTREMES

HAWAIIAN STATIONS ONLY

HIGHEST TEMPERATURE:	PUUKOHOLA HEIAU 98.1	HAWAII	91	DATE 17+
LOWEST TEMPERATURE:	MAUNA LOA SLOPE 085	HAWAII	27	DATE 19
GREATEST TOTAL PRECIPITATION:	HILO COUNTRY CLUB 86.6	HAWAII	48.11	
LEAST TOTAL PRECIPITATION:	PUUKOHOLA HEIAU 98.1	HAWAII	.22	
GREATEST 1 DAY PRECIPITATION:	HILO COUNTRY CLUB 86.6	HAWAII	6.95	DATE 14

### SUPPLEMENTAL DATA

	WIND (SPEED - M.P.H.)						RELATIVE HUMIDITY AVERAGES- PERCENT				NUMBER OF DAYS WITH PRECIPITATION								PERCENT OF POSSIBLE SUNSHINE	AVERAGE (TENTHS) SKY COVER	SUNRISE TO SUNSET
	RESULTANT DIRECTION	RESULTANT SPEED	AVERAGE	FASTEST MILE	DIRECTION OF FASTEST MILE	DATE OF FASTEST MILE	STANDARD OF TIME				TRACE	.01-.09	.10-.49	.50-.99	1.00-1.99	2.00 AND OVER	TOTAL				
							GREENWICH CIVIL														
							12	18	00	06											
GUAM WSMO	-	-	-	32	NE	06	-	77	78	86	0	14	10	3	0	0	27	72	7.9		
HILO WSO 87 AP	9	1.2	7.4	23	SE	30+	84	81	68	80	2	5	16	6	1	1	31	32	7.9		
HONOLULU WSO 703 AP	7	13.2	15.8	37	NE	07	71	69	54	67	15	5	6	1	0	0	27	66	5.1		
JOHNSTON WSO AP	8	15.2	18.5	41	E	06	77	78	69	75	14	9	4	0	0	0	27	89	4.7		
KAHULUI WSO 398 AP	7	12.2	15.7	35	E	16+	73	72	57	66	4	15	3	1	0	0	23	71	4.1		
KOROR WSO	5	8.8	9.7	24	E	21	83	-	78	72	0	8	9	0	1	0	18	60	8.5		
KWAJALEIN MISSILE RGN	7	14.7	15.1	23++	S	29+	80	81	69	74	5	8	4	0	1	1	19	-	8.2		
LIHUE WSO 1020.1 AP	7	12.9	16.3	31	NE	04	80	79	67	78	1	17	8	0	0	0	26	77	6.6		
MAJURO WSO AP	7	14.3	14.6	26	E	31+	81	82	72	78	6	6	7	1	0	0	20	75	9.5		
PAGO PAGO WSO AP	35	2.7	7.7	32	N	13+	89	91	75	81	2	9	11	2	5	0	29	37	8.6		
PONAPE WSO	-	-	-	26	E	28	80	-	74	75	5	6	6	2	4	1	24	27	9.2		
TRUK MOEN I. WSO AP	6	11.3	12.3	25	E	26	89	91	75	76	5	6	12	2	2	0	27	43	9.7		
WAKE WSO AP	5	16.6	18.7	34	E	26	89	91	81	81	6	8	10	1	1	0	26	70	5.4		
YAP WSO AP	7	10.2	10.6	22	NE	24+	82	-	70	70	1	5	9	1	0	0	16	88	7.8		

JUN 22 1977

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*Daniel B. Mitchell*

 DIRECTOR  
 NATIONAL CLIMATIC CENTER

**noaa**

NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION / ENVIRONMENTAL DATA SERVICE / NATIONAL CLIMATIC CENTER ASHEVILLE, N.C.

## MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

HAWAII AND PACIFIC  
MARCH  
1977

STATION		TEMPERATURE										PRECIPITATION																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
		AVERAGE MAXIMUM	AVERAGE MINIMUM	AVERAGE	DEPARTURE FROM NORMAL	HIGHEST	DATE	LOWEST	DATE	DEGREE DAYS	NO. OF DAYS					TOTAL	DEPARTURE FROM NORMAL	GREATEST DAY	DATE	SNOW, SLEET		NO. OF DAYS																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
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## MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

HAWAII AND PACIFIC  
MARCH 1977

STATION		TEMPERATURE										PRECIPITATION																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
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## MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

HAWAII AND PACIFIC  
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STATION		TEMPERATURE													PRECIPITATION										
		AVERAGE MAXIMUM	AVERAGE MINIMUM	AVERAGE	DEPARTURE FROM NORMAL	HIGHEST	DATE	LOWEST	DATE	DEGREE DAYS	NO. OF DAYS				TOTAL	DEPARTURE FROM NORMAL	GREATEST DAY	DATE	SNOW, SLEET			NO. OF DAYS			
											MAX.		MIN.						TOTAL	MAX. DEPTH ON GROUND	DATE	+10 OR MORE	+50 OR MORE	+100 OR MORE	
											90° OR ABOVE	80° OR ABOVE	70° OR ABOVE	60° OR ABOVE											
PACIFIC																									
EAST OF 180TH MERIDIAN																									
CANTON ISLAND		88.8M	79.7M	84.3M		92	10	76	14+		0	0	0	13.71		5.82	11	.0	0						
FAKA OFU RESERVOIR														21.94		4.26	25	.0	0		20	12	6		
FALEASAO VILLAGE														1.13	- 1.72	.28	5	.0	0		4	0	0		
JOHNSTON WSO AP		R 80.5	73.0	76.8	-.2	82	31+	69	27		0	0	0	0				.0	0						
LEDNE		89.6M	82.6M	86.1M		94	19	77	13		19	0	0	0				.0	0						
FRENCH FRIGATE SHOALS		76.4	66.1	71.3	-.2	80	31	60	31+		0	0	0	0	4.07	.29	.89	12	.0	0		9	2	0	
MIDWAY SAND ISLAND		69.0	60.1	64.6	- 1.8	76	23+	51	25		0	0	0	0	2.88	-.12	1.31	24	.0	0		5	1	1	
PAGO PAGO WSO AP		R 86.9	75.9	81.4	1.0	90	9	73	30+		1	0	0	0	11.64	-.43	1.89	13	.0	0		18	7	5	
SWAINS ISLAND																									
WESTERN PACIFIC ISL. NORTH OF 12 N																									
ANDERSEN AFB GUAM		81.2	74.5	77.9	-.6	84	2	72	24+		0	0	0	0	4.33	- 1.63	.74	17	.0	0		15	2	0	
CLARK AFB LUZON		90.2	72.0	81.1	.0	95	28+	63	6		25	0	0	0	.15	-.70	.06	20	.0	0		0	0	0	
GUAM NAS		84.7	76.0	80.4	.4	86	29+	74	24+		0	0	0	0	3.81	1.53	.81	25	.0	0		12	3	0	
GUAM WSO		R 83.8	71.5	77.7	.0	86	12	68	4		0	0	0	0	4.98	2.04	.06	16	.0	0		13	3	0	
MANGILAO														3.74		.72	25	.0	0		9	3	0		
ROTA														3.73				.0	0					0	
SAIPAN LORAN																									
WAKE WSO AP		R 82.3	70.8	76.6	- 1.1	86	22+	65	16		0	0	0	0	5.55	3.95	1.89	21	.0	0		12	2	1	
CAROLINE AND MARSHALL ISLANDS																									
ENGLUAR														7.63	.79	3.15	14	.0	0		8	4	3		
ENIWETAK		83.8	78.5	81.2	-.2	86	13	74	5		0	0	0	0	.71	-.85	.34	28	.0	0		2	0	0	
FALALOP I. ULITHI																									
KAPINGAMARANGI ATOLL		R 88.1	74.8	81.5		91	9	70	7		6	0	0	0	12.08		4.50	1	.0	0		10	3	3	
KOROR WSO		88.2	75.3	81.8	.7	90	22	73	14+		1	0	0	0	3.60	- 4.19	1.27	14	.0	0		10	1	1	
KWAJALEIN MISSILE RON		R 86.9	77.3	82.1	.4	89	9+	74	7+		0	0	0	0	4.71	- 1.50	2.64	14	.0	0		6	2	2	
LELE I. KUSAE		88.0M	74.7M	81.4M	.2	91	12+	61	25		0	0	0	0	17.93	- 2.01	2.68	25	.0	0		14	10	8	
MAJURO WSO AP		R 86.3	76.6	81.5	.3	88	10+	75	31+		0	0	0	0	2.60	- 6.65	.69	22	.0	0		8	1	0	
METALANIM		86.0	77.8	81.9		88	25+	74	22+		0	0	0	0	7.05		1.78	29	.0	0		9	4	3	
MOKIL ATOLL																									
NGASANG, BARBELTHUAP																									
PONAPE WSO		R 87.4	76.3	81.9	1.1	90	4	74	29+		1	0	0	0	12.65	- 2.39	4.86	28	.0	0		13	7	5	
SATAWAN ATOLL																									
TRUK, MOEN I. WSO AP		R 86.1	76.6	81.4	.1	87	29+	74	31+		0	0	0	0	8.31	.33	1.84	9	.0	0		16	4	2	
WOLEAI ATOLL		87.0M	73.1M	80.1M		89	28+	64	11		0	0	0	0	6.55		2.00	14+	.0	0		9	4	2	
YAP WSO AP		R 87.7	75.1	81.4	.4	89	31+	72	17+		0	0	0	0	2.42	- 3.16	.89	7	.0	0		10	1	0	

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## DAILY PRECIPITATION

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STATION	TOTAL	DAY OF MONTH																																						
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31								
HAWAII																																								
ISLAND OF KAUAI																																								
ANAHOLA 1114	A	3.05	.30	.15	.06					.03	.02	.15				.28	.05			.05	.05		.15								.50	.06	.50	.55						
AYESBUSH STA 985	A	10.11	.58	.36	.48					.65	.15	.44			.04	.25			1.30	.88		.20	.07	.88							.64	.45	.06	.51						
EAST LAWA 934	A	7.23	.19	.25	.47	.14				.43	.15	.14			.09	.04			.93	1.57		.07	.16			.95	.18	.16	.03	.02		.26	.13	.40	.47					
ELELEE 927	A	3.74	.06	.14	.08	.06				.14	.04	.20			.01	.02			.60	.20		.02	.02	.15			.52	.04	.01	.06		.89	.38	.01	.08					
HALEAULA 1110	A	3.41	.30	.20	.20	.04				.05	.05	.10							.30	.15			.07	.07			.22	.03		.10		.45	.07	.55	.46					
HALENANAH 1006	A	8.13	.28	.35	.43	.41				.44	.18	.24			.15				.32	.63		.17	.02	.25			.126	.25	.14	.06	.08		.46	.14	1.21	.65				
HUKIP 945	A	2.53																																	.53					
ILILIULA INTAKE 1050	A	20.31	.51	.92	.97	1.17				.61	.54	.71			.38	.15			2.60	2.74		.62	.16	.15			.2	.98	.62	.31	.21	.15		2.20	.13	.70	.68			
INTAKE WAININA PC 1086	A	18.03	.48							.3	.38					.58			1.94													1.69								
KANALOHULULU 1075	A	8.90	.12	.02	.04	.04	.44	.33		.10	.02	.02			.03	.08	.09		.04	.03		.02	.24		.23	.18	.31	.16	.32	.03	.25	.92	1.15	.86						
KANEHA RESERVOIR 1092	A	6.03	.75	.35	.25	.30				.25	.10	.40			.05	.05			.65	.32		.05	.15	.28			.50	.15	.15			.63	.05	.50	.10					
KAPPA STABLES 1104	A	3.62	.16	.11	.10	.35				.12	.11	.10							.12	.20		.02	.02				.28	.04	.03			.44	.12	.67	.63					
KEALUA 1112	A	3.10	.10	.12	.03	.05				.05	.05	.13							.20	.09		.05	.07				.15		.07			.55	.04	.85	.50					
KEALUA 844	A	1.63																	.01													1.12	.23	.10	.15					
KEALUA 1134	A	3.91	.07	.78	.10					.17	.15	.17			.22	.10	.05		.34	.30	.07	.10	.17	.13		.19	.05	.04	.18	.04	.12		.07	.04	.20	.05				
KILAUER POINT 1133	A	2.63	.11	.28		.01	.11	.01		.12	.07	.17			.03	.03	.23		.16	.37	.19											.01	.05	.22	.02					
KOLB 1033	A	4.03	.03							.44																							.10	.08						
KOLB 936	A	6.29	.12	.27	.41	.30				.50	.17	.20			.02	.01			.57	.40		.15		.10			.68	.18	.10	.08		.01		.38	.30	1.05	.29			
KOLB LA (PMAK) 940.1	A	4.32	.05	.11	.16	.08	.35	.10		.06	.08	.16			.07	.09	.09		1.88			.01	1.88			.07		.11			.02	.26	.22	.14	.10	.29				
KOLB MAUKA 894	A	10.61	2.07		.19					.1	1.00				.42						2.00													.04		.88				
KUKUIULA 935	A	3.48	.01	.14	.13	.17				.39	.07	.10			.02				.25	.26		.01					.33	.17	.07	.03			.25	.21	.65	.22				
LIHUE VARIETY ST 1062.1	A	5.45	.05	.37	.10	.15				.39	.12	.18			.01	.23			.70	.20		.33	.10	.16			.64	.18	.08	.03			.32	.08	.41	.25				
LIHUE 1020	A	3.33	.03	.12	.22	.02				.18	.07	.07			.02				.04	.30		.02	.01	.03			.48	.12	.02	.01		.02		.34	.20	.68	.20			
LIHUE WSO 1020.1 AP	A	2.38	.07	.03	.17	.10	.01	.07		.02	.11								.02	.07	.08		.02	.05	.14	.04	.04	.01	.01			.19	.25	.44	.32	.01				
MAKALEI 965	A	2.67	.02	.05	.02	.05	.03	.01		.01	.03	.07			.01				.16	.03	.05		.07		.03	.08	.04					20	20	.60	.44	.45	.02			
MAKA 1026	A	2.42				.08																											.09	.03	.16	.50	.48	.07		
MAHAI UPR CROSS 1083	A	15.01	.08	.17	.42	.51	.76	.34		.34			.16	.17	.08			.68		.51		.60	.42		.60	.51	.60	.34	.08			.08	3.06	1.19	1.19	2.04				
MOLABA 1145	A	1.83				.14				.22		.22			.32				.14														.20		.29					
MOUNT WAILALEALE 1047	A	1.70																																						
NIU RIDGE 1035	A	1.70																																1.15	.12	.30	.13			
N WAILUA DITCH 1051	A	19.88	.50	1.14	1.19	1.31				.73	.61	.92			.41	.19			4.21	1.21		.20	.28	.27			1.97	.26	.27	.29		.10		2.01	.21	1.28	.32			
PA WAININA 1115	A	10.90	.69	.31	.16	.55				.64	.16	.20			.06	.14			2.03	.46		.18	.04				3.42	.42	.28	.04			.39	.12	.57	.04				
PRINCEVILLE RANCH 1117	A	8.07																	5.30	.45							1.12	.13	.27	.07		.02		.26	.10	.31	.04			
PUEHI RIDGE 1040	A	4.38				.10									.19																		2.55	.45	.58	.51				
PUEHI 1013	A	3.06	.14	.12						.46	.07	.10			.05					.27	.17							.37	.01	.03	.05			.43	.41	.21	.10			
WAILAUA 930	A	3.67	.11	.14	.10	.08				.24	.08	.15			.03	.01			.42	.47		.01	.01	.07				.65	.14	.05	.04		.01		.23	.40	.05	.17		
WAILAUA LOWER 1054	A	3.77	.21	.54	.48	.67	.27	.02		.11	.19	.40			.11	.03	.29		.61	.28	.47						.44	.05	.45	.21	.24	.13		.14	.06	.17	.43	.09	.46	.83
WAILAUA UPPER 1052	A	15.04	.48	.79	.92	1.25	.34	.04		.27	.30	.65			.26	.09	.42		.68	.44	.82		.57	.14	.14		.87	1.02	.47	.18	.29	.25	.13	.08	.39	1.08	1.14	.74	.80	
WAILAUA 843	A	2.03																															.12	.03	.116	.23	.35	.14		
WAILUA KAI 1065	A	4.04	.29	.24	.03	.13				.27	.05	.12			.03				.51	.06		.03	.02	.02				.21	.11	.03	.05		.02		.48	.18	1.03	.13		
WAILUA 947	A	2.11			.03																												.08	.06	1.33	.43	.05	.13		
WEST LAWA 931	A	4.63	.11	.15	.27	.15				.35	.12	.15			.03	.01			.35	.48		.12	.05				.68	.17	.14	.08				.22	.17	.30	.52			
ISLAND OF OAHU																																								
ALPHA STADIUM-HAALUA	A	2.57		.12	.02	.03				.11	.17	.05			.03				.49	.24							.56	.13	.01	.17				.17	.21	.11	.18			
BETANETIA PUMPING STA	A	3.91	.01	.14	.22	.15				.47	.03				.01	.48			.42	.06			.02	.03			.19	.32	.15	.04	.02			.11	.69	.02	.33			
B Y U LAIE 803.1	A	3.18	.17	.07	.37	.20	.21	.03		.15	.12			.05	.16	.33			.05	.02	.06					.06	.05	.28	.05	.01	.01		.16			.42	.32	.17	.57	
CAMPBELL IND PK 702.5	A	1.49				.02	.03																																	
CAMP 84 807	A	3.13		.09	.01					.38	.03	.08							.62		.07							.04						.05		.13				
COCONUT ISLAND 840.1	A	2.56	.07	.08	.05	.01				.14	.07	.08			.04				.11	.03								.23	.07	.02	.04			.03		.16	.48	.35	.49	
ELIWA PLANTATION 741	A	1.24				.08													.13									.01												

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# DAILY PRECIPITATION

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STATION	TOTAL	DAY OF MONTH																															
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
HAWAII																																	
KUKUIHALE MILL 206		6.91	.10	.21	.24	.52	x	x		.51	.64		.08	x		.64	.43		.38	x	x	1.22	.43	.65	.56	.20				.07	.02	.01	
KULANI CAMP 79		30.67	2.25	.66	4.65	2.40	.70	.44		.13	.28	.09	.05	.33	1.26	.60	4.00	2.50		.78	.62	1.15	.82	3.20	x	.86	1.15	.46	.50		.19	.50	
KULANI MAUKA 76	A	10.57	.15	1.23	2.60	.30	.17	.02					.05	.18	.77	.45	.34		.04	.02	.30	.46	1.53	.38	.46	.08	.07		.60	.15	.15	.05	
KULANI SCHOOL SITE 78		33.35	x	x	x	x	16.40	x	x	x	x	x	x	2.20	x	x	x		x	x	x	8.85	x	x	x	x	5.90	x	x	x	x	x	
LANIKAU 68.2	A	5.39		.11		.78	.08		.05	.83	.08			2.0	.19	.06	.25	.16	.21		.21	.21	.03			.10	.06			.02	.35	.51	
MAKAHALAU 103		1.59					x	x		.03	.18		.05												.18	.08	.12			.55	.23	.17	
MAUKA 2	A	6.00											x		.12	.17	T		x	x	1.80		.50	.20		x	x	.70	.30	.60	1.00		
MAUNA KEA OBS 111.2		1.28													.07	.01					T									.32	T		
MAUNA LOA SLOPE OBS		.35	.01	.03	.11																.05									.07			
MIDDLE MAUNA LOA 68.1	A	3.51	x	x	x	x	x	x	.25	x	.45	x	x	x	x	.05	x	x	x	x	x	2.21	x	x	x	x	x	x	.55	x	x	x	
MIDDLE PEN 147.1		.79																												.11		.53	
MOAULA 18	A	2.05	x	x	x	x	x	x	x	x	.68	x	x	x	x	.41	x	x	x	x	x	.70	x	x	x	x	x	x	.26	x	x		
MOUNTAIN VIEW 81	A	40.38	2.23	1.11	2.98	3.51	.59	.76	.68	1.21	.64	.22	.63	1.80	2.36	4.20	2.20	.43	.72	1.40	.71	6.03	.53	1.03	1.54	1.60	.30	.03		.07	.64	.23	
NAALEHU 14	A	5.80	.13	T	.33	.58						.01		.54	.22	.11					.20								.60	.89	.94	1.25	
NAPAHU 28	A	3.08	x	x	x	x	x	x	1.30	x	x	x	x	x	x	.16	x	x	x	x	x	.93	x	x	x	x	x	x	.69	x	x	x	
NAKALA 223		23.43	.35	.60	1.66	2.50	.18	.51	.33	.70	.10		.85	1.16	.80	3.80	.85	.35	.06	.57	.28	2.15	1.70	1.38	.88	.98	.30	.01		.15	.12		
NAKALA 2 24.1		1.97	.02	.17	.25	.09	T	T	T	T	.15	T		.02	T	.03		.04	T		.08	.02	T	.13	T	.45	T		.02	.16	.33	T	
NAKALO LAND EST 91.5	A	24.95	x	x	x	12.45	x	x	x	x	x	x	2.10	x	x	x	x	x	6.74	x	x	x	x	x	3.66	x	x	x	x	x	x	x	
PAUHAU 217		13.56	.18	.23	.91	.87	.16	.48	.27	.51	.01		.12	.33	.11	1.46	.76	.01	.33		.26	1.76	1.78	.96	.98	.65	.08			.32	.01		
PAUHAU 221		18.38	.23	.23	.98	1.88	.55	.39	.21	.67			.29	.47	.50	1.91	.90	.22	.01	.71	.38	1.20	2.67	1.48	.86	1.40	.14	T		T	.10		
PAHALA 21	A	4.30	.05	.29		.25						T		.48	.15						.61								.13	1.39	.38	.56	
PAHA 65		18.77	.98	.46	1.35	1.65	.09	.16	.15	.65	.48	.12	.07	.27	1.25	2.21	.54	.14	.35	1.02	.26	.97	.08	.14	.53	.81	.23	.05	.09	.50	.95	.79	
PAKOB 37	A	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	
PAPAIKOU 144.1		18.60	1.13	.35	2.52	.75	x	x	.36	.47	.25	.04	.46	x	x	5.80	.91	.03	.52	.31	x	x	1.86	.31	.91	.58	.10		.03	.27	.64		
PAPAIKOU MAUKA 140.1		33.70	1.85	.95	4.20	2.51	x	x	1.25	1.08	.44	.11	.82	x	x	7.80	1.50	.36	.38	.81	x	x	4.25	.80	1.37	1.50	.28	x	x	.01	.22	.33	.78
PIIHOA 89	A	24.00	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	24.00	
POHAKULA 107	A	.27	.22			.05	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	
POHAKULA HEIHAU 98.1		.22				T																								.07	.08	.07	
PUU LEHUA 73	A	2.60		x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	
PUU WAAHAA 84.1	A	.88		.08								.06	x		.17						x	x	.29		.03					.04	.21		
SADDLE ROAD 1 84	A	65.86	x	x	18.86	x	x	x	x	x	x	8.40	x	x	x	x	x	18.65	x	x	x	x	x	x	18.75	x	x	x	x	x	x	x	1.20
SOUTH KONA 2.31		3.04	.09	.01		.02																			.10	.05		.58	.67	.52	1.00		
SOUTH POINT CONRAL 3	A	1.98	x	x	x	x	x	x	.53					x	x	x	x	x	x	x	x	x	.55			.91							
UPOLU POINT USCG 159.2		3.63	.07	T	.22	.07	T	.02	.38	.10	T		.03	.16	.01	.02	.03	T		.23	.05	.19	T	.12	.46	.30			.08	.68	T	.42	
WAIKOA SCD 88.2		41.82	1.92	1.26	4.50	3.32	.96	.30	.68	.93	.37	.05	.46	1.36	2.20	5.72	2.41	.45	.81	1.20	1.00	3.28	2.98	1.54	1.62	1.44	.35	.01			T	.39	
WAIKALOA-8815 CAS 95.8		.23			T					.03	T				.03														.12	.05	T		

SEE REFERENCE NOTES FOLLOWING STATION INDEX

# DAILY PRECIPITATION

HAWAII AND PACIFIC  
MARCH  
1977

STATION	TOTAL	DAY OF MONTH																															
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
PACIFIC																																	
EAST OF 180TH MERIDIAN																																	
CANTON ISLAND	13.71			.02	.03	.08	*	.08		.08	.01	5.82	.02	*	.45	.01				.03	.02	*	.45					4.70	*	1.91			
FAGA ALU RESERVOIR	21.94				.05	.01	.26	.43	.67	.14	.32	T	2.81	2.51	.67	.59	.24	T	.04	.06			.15	.73	.61	4.26	2.72	.17	.45	.78	1.08	2.16	
FALEASAO VILLAGE	1.13	.08	T		.05	.28	.03	.01	.10	T		T		T	.27	.13	.04		T	T	.02	.03	.04	.04	T	T	T	T	T	T	T		
JOHNSTON WSO AP	11.40	.01	.02	.12	.44	*	1.40	.14	.84	.64		.21	.84	1.38	.11	1.05	.21	.75	.05	.03	.96	.72	.20	.32	.16		.14	.08	.43	.03	.02	.09	
LEONE																																	
FRENCH FRIGATE SHOALS	4.07	.01		.02	.42	.05	.07	.01	.08	.03	.21	.01	.89	.21	.24	.08	.40	.30									.01	.76	.03	.18	.02	.03	
MIDWAY SAND ISLAND	2.88		T	.01	T	T		.30	T	T		.01		.07	.37	.17	.45	T	T		T	.01	T	T	.07	1.31	.06	T	.01	.01	.01	.02	
PAGO PAGO WSO AP	11.64	.05	T	.03	T		1.25	.19	.09	.75	.15	.20	1.10	1.88	.42	1.20	.38	1.24	.21	.03	.39	.05	.18	.43	.06		.08	.12	.16	.05	.01	.83	
SWAINS ISLAND																																	
WESTERN PACIFIC ISL. NORTH OF 12 N																																	
ANDERSEN AFB GUAM	4.33	.18	T	.21	.05	.14		.24		.24	.01	T			T	.29	.17	.74	.02	.20	T	.24	.16	.01	.44	.53	.31	T	.10	.02	.03		
CLARK AFB LUZON	.15	T		.05																		.06	.04									T	
GUAM NAS	3.81	.10		.06	T	.15	.10	.38		T		T				.07	.50	.50	.01	.12	.01	.18	.24	.24	.22	.81	.08	T	.01			.02	
GUAM WSO	4.08	.08	.05	.24		.07	.13	.09	.03	.34	.02		.09	.03	.02	.33	.86	.58	.01	.15	.01	.23	.24	.03	.20	.66	.28	.03	.05			.11	
MANGILAO	3.74		.09	.30	.05			.08	.09	.02	.05				.12	.22	.14	.68				.67	.23	.03	.08	.13	.72	.01	.01			.02	
ROTA	3.73	.16		.39	.13			.03	.03		.06	.01	*	*	.61	.13	.11	.23	.11	*	*	.21	.08	.14	.45	.06	*	*	.11	.16	.52		
SAIPAN LORAN																																	
WAKE WSO AP	5.55		T	.02	T	.01		.38	.14	.04	.04	T	T		T	.37	.58	.23	.08	.12	.38	1.89	.43	.48	.20		.03	.01	.10	.01		T	
CAROLINE AND MARSHALL ISLANDS																																	
ANGUAR	7.63	.74	.02	.01	1.68	.02	.02	.15	.01		.02	.01	.05	.13	3.15	1.11					.21	.02	.06		.08	.10		.01	.01			.01	
ENIWETAK	.71	.10			.01		.03	.02											.01	.03		.03		.04			.06	.04	.34				
FALALOP I. ULITHI																																	
KAPINGMARANGI ATOLL	12.08	4.50	.40		3.58			.35				.08																					
KOROR WSO	3.60	.16		.26	.24	.01	.01	.46	.01		.29	.02		.10	1.27	.10	.30			.13		.01	.21	2.10	.04	.01	.03	.04			.15	.13	
KWAJALEIN MISSILE RMH	4.71		.01	T		.01	.13	.16				.04	.05	1.10	2.64		.06	.23		T	.01		T	.13	T	2.68	.36	.06	.06	.08		T	
LEE I. KUSAIE	17.93		.01		T	T		.02	T	.03		.32		.05	.41	.23	.98	1.50	1.74	.12	.02	.08	1.95	1.48	2.63	T			1.57	T	.45	1.19	
MAJURO WSO AP	2.60	T	T			.14		.02	T	.03	.11	.16					.03	.24	.09	.03	.24		.69			T			.32	T	.08		
METALANIH	7.05		.03	.06				.96	.44	.01	.42				.41	.26	.16										.09		1.33	1.78	1.03	.07	
NOBIL ATOLL																																	
NOBISAND, BARBELTHURP																																	
PONAPE WSO	12.65	.02	.07	T			T	1.20	1.05	.25	.21	.10	.01		.90	1.17	.07	.01	.13	T	.01					T	.12	.15	4.86	1.56	.76		
SATAVAN ATOLL																																	
TRUK, MOEN I. WSO AP	8.31	.45	T	.12	.11	.24	T	.03	.01	1.84	1.23	.92	.31	.01	.35	T			T	.15	.42		.07	T		.30	.06	.41	.30	.01	.30	.66	
WOLEAI ATOLL	6.95		T	.04			.10			.03	.60	.41		2.00	2.00						.01	.30	.41						.04	.51	.10		
YAP WSO AP	2.42	.15	.14	.06	.10		.01	.89			.11					T	.22	.03	.17		.12		.10	.01		.04					.27		

SEE REFERENCE NOTES FOLLOWING STATION INDEX



# DAILY TEMPERATURES

HAWAII AND PACIFIC  
MARCH  
1977

STATION		DAY OF MONTH																															AVERAGE
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
HAWAII																																	
ISLAND OF KAUAI																																	
KANALOAHULUHULU 1075	MAX MIN	67 55	68 55	66 54	63 52	58 52	59 51	66 52	67 53	70 54	65 54	67 53	67 55	66 55	67 54	65 55	67 52	61 54	65 51	65 52	63 53	61 52	60 51	64 49	67 51	69 53	68 51	61 53	62 55	63 55	65 55	65 54	64.7 53.1
KILAUEA POINT 1133	MAX MIN	77 71	79 69	79 67	78 70	77 66	77 66	77 66	76 67	76 67	76 66	77 69	78 69	77 68	77 58	77 68	78 70	77 65	77 67	78 68	79 68	79 67	77 66	77 69	79 68	80 69	83 69	83 67	81 66	85 65	79 67	78.3 67.6	
KOLOA LN (MAK) 940.1	MAX MIN	80 71	81 69	80 70	79 71	80 66	77 67	77 69	79 69	78 71	82 68	85 71	84 70	80 69	80 69	80 69	81 72	82 69	81 68	80 68	80 67	79 69	80 66	80 66	80 70	84 70	86 70	86 70	87 66	86 69	86 66	81.3 68.6	
LIHUE W50 1020.1 AP	MAX MIN	79 71	79 71	78 72	78 69	77 69	76 68	77 69	76 69	78 71	79 71	78 72	78 71	79 71	79 70	78 72	77 70	78 68	78 67	79 69	79 69	80 68	79 67	80 67	79 71	81 67	82 68	80 66	81 66	80 69	81 66	78.8 69.3	
MANA 1026	MAX MIN	84 66	87 65	86 65	83 63	85 63	83 61	85 61	83 62	87 62	84 67	85 66	84 65	84 65	83 64	85 60	85 60	83 61	85 60	86 60	86 60	84 59	84 60	88 62	82 60	86 64		82 60	80 66	80 66	79 66	84.0 53.1	
NIU RIDGE 1035	MAX MIN			87 60	84 59	80 57		81 57	82 57	78 61	87 60	83 62		85 61	85 60	83 58	82 61	82 57			83 57	82 57	88 54	84 57		84 57		83 61	78 62	79 63	78 62	82.6 59.1	
WAIHAI LOWER 1054	MAX MIN	70 65	71 65	69 65	61 61	63 63	68 62	69 62	68 62	70 65	70 62	69 66	69 62	70 65	68 62	64 64	61 61			70 62	69 62	70 61	68 60	69 60	70 61	72 62	73 60	72 60	74 61	73 63	72 59	70.1 62.4	
ISLAND OF OAHU																																	
ALOHA STADIUM-HALAWA	MAX MIN	85 67	84 67	80 69	80 68			79 66	80 67	79 69	82 66	85 67		80 68	81 68	80 69	81 68	79 68			80 67	79 67	78 68	80 68				85 64	84 64	82 67	84 67	81.2 67.2	
B Y U LAIE 903.1	MAX MIN	80 68	80 69	80 69	78 70	78 67	77 65	77 68	79 68	78 67	80 68	80 69	77 67	79 69	77 68	79 70	80 68	77 68	79 67	79 68	80 68	80 69	79 68	80 69	80 68	82 70	81 69	86 75	84 62	83 65	85 65	79.7 68.3	
EWA PLANTATION 741	MAX MIN	85 69	84 68	83 68	84 69			83 64	82 67	82 67	84 62	84 64		84 66	84 68	83 69	83 66	82 60			83 65	82 67	82 66	81 67	82 65		84 60	82 64	81 65	82 66	82.9 65.7		
HONOLULU W50 703 AP	MAX MIN	85 72	84 70	86 71	85 72	82 69	78 68	82 69	83 70	85 69	83 67	85 71	82 70	83 69	85 71	84 72	83 69	83 70	84 68	83 70	83 68	82 69	84 70	83 71	83 70	82 65	81 70	81 68	82 68	80 69	83.1 69.3		
KANEHE MAUKA 781	MAX MIN	77 71	78 70	77 69	74 69	77 67	77 66	74 64	76 67	75 68	78 68	79 69	74 70	74 68	75 69	78 68	77 65	78 68	77 67	77 69	77 68	78 69	77 67	78 68	78 67	78 66	82 65	82 66	78 65	80 69	77.1 67.9		
MANDA LYON ARBORETUM	MAX MIN	77 67	76 65	76 65	75 66	73 64	70 64	73 63	74 63	72 65	80 62	81 64	75 64	73 65	73 65	75 64	77 64	74 64	74 63	76 63	76 64	73 63	72 63	73 63	75 64	80 62	81 60	79 61	79 63	80 63	76 65	75.6 63.8	
OPAEULA 870	MAX MIN	75 67	75 65	75 66	74 65	75 65	75 62	75 72	73 64	73 66	75 62	76 64	76 66	72 64	72 66	75 64	75 65	76 66	76 65	76 66	75 64	75 63	75 64	75 65	75 63	75 63	75 63	75 63	84 63	84 64	82 65	75.9 64.3	
WAIALEE 896.3	MAX MIN	78 65	79 65	78 65	79 63	78 62	77 59	76 60	77 58	77 66	78 68	78 62	77 61	78 65	79 62	78 64	76 65	78 60	77 62	78 58	77 63	76 65	76 66	78 67		78 67		84 62	81 66	81 66	78.0 63.3		
WAIALUA 847	MAX MIN	80 65	80 66	79 64	79 65	78 68	77 66	78 66	78 66	79 65	82 61	83 63	79 67	79 65	79 66	80 64	79 66	79 63	79 63	79 63	79 61	79 60	78 62	79 60	82 62	83 60	86 62	83 63	81 64	76 64	79.7 64.0		
WAIKIKI 717.2	MAX MIN	83 71	82 69	82 68	83 71	83 68	80 66	82 68	82 68	85 71	86 68	83 68	82 69	83 71	83 70	83 70	83 69	81 70	81 68	82 67	82 69	82 68	82 68	82 69	82 69	82 69	82 69	82 69	82 69	81 66	82 68	82.3 68.4	
WAIMANALO EXP FARM	MAX MIN	80 71	80 67	79 70	78 70	80 68	79 66	77 65	78 66	78 66	82 64	80 69	78 67	78 68	81 69	79 66	80 67	78 64	79 67	79 69	79 69	80 67	78 68	78 69	78 67	80 65	83 63	80 70	79 67	78 67	78 67	79.1 67.3	
ISLAND OF MOLOKAI																																	
MOLOKAI AP 524	MAX MIN	84 68	84 67	80 67	84 68	82 65	77 65	79 64		86 65	84 62	80 68	86 68	84 68	86 65		85 67	84 64	82 66	80 64	81 67	80 65	78 66	80 63	81 57	82 71	85 67	79 62	85 61	85 61	82 67	83 63	82.2 65.2
ISLAND OF LANAI																																	
LANAI AIRPORT 656	MAX MIN	79 60	79 63	78 59	78 66	78 58	76 66	74 68	76 67	78 67	78 68	76 61	79 62	79 62	78 56	78 56	78 59	78 59	80 60	77 56	75 58	76 58	78 56	78 56	81 60	78 63	73 63	74 61	73 62	77.3 59.1			
LANAI CITY 672	MAX MIN	76 62	74 64	75 61	74 70			73 61	72 59	74 61	77 60	78 64			75 64	77 63	75 58	79 62	75 59														
ISLAND OF MAUI																																	
HALEAKALA RS 338	MAX MIN	60 42	62 43	52 44	57 39	59 38	47 37	54 34	65 40	69 49	68 40	56 37	59 44	59 45	56 44	60 42	59 37	59 42	58 37	55 39	55 40	56 36	51 37	51 36	54 39	54 41	61 37	57 38	59 41	58 34	59 43	57.6 39.7	
HANA AIRPORT 355	MAX MIN	80 61	80 67	78 63	76 66	80 58	78 66	75 66	77 67	78 67	80 67	78 67	77 67	78 68	78 67	79 67	80 67	79 66	78 66	79 66	77 65	75 66	77 66	78 65	80 66	80 62	82 62	77 66	80 64	83 55	78.5 65.7		
KAAHAPALI AP 453.1	MAX MIN	82 69	80 66	79 66	79 66	80 65	77 65	73 62	77 66	80 66	80 68	80 67	79 66	81 67	82 68	80 66	82 66	80 65	78 64	79 65	80 64	76 65	75 64	78 65	79 66	80 63	81 67	81 67	80 67	81 67	79.3 65.8		
KAHULUI W50 398 AP	MAX MIN	81 72	80 70	80 71	82 70	80 70	76 68	80 66	80 67	87 63	86 64	85 61	81 69	81 68	82 70	81 67	85 68	82 69	80 68	81 69	79 68	78 67	80 65	81 65	87 65	85 62	85 60	83 69	80 70	81 69	82 66	81.6 67.5	
KAILUA 446	MAX MIN	74 68	77 64	74 65	71 64			78 65	72 65	73 66	76 67	71 66			75 63	74 64	72 62	75 65	74 65			74 62	72 61	69 61	71 62	74 63		78 64	78 64	70 63	79 64	74.0 64.0	
KEAWAKAPU BEACH 260.2	MAX MIN	87 64	82 62	86 63	85 61	86 62	89 63	84 61	85 62	85 62	85 61	84 64	86 62	87 62	85 63	86 59	84 60	86 61	83 60	85 61	85 61	84 60	84 60	85 60	85 60	85 62	83 69	81 68	80 68	83 66	84.6 62.4		
KULA SANATORIUM 267	MAX MIN	75 57	74 57	74 55	75 53	74 54	73 55	72 53	75 53	71 54	71 56	72 57	72 56	73 57	73 57	74 58	75 54	73 52	72 53	76 54	75 55	74 54	71 52	74 53	74 52	74 53	77 58	77 60	74 63	73 62	73.6 55.4		

SEE REFERENCE NOTES FOLLOWING STATION INDEX

# DAILY TEMPERATURES

HAWAII AND PACIFIC  
MARCH 1977

STATION		DAY OF MONTH																															AVERAGE	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
HAWAII																																		
LAHAINA 361	MAX MIN	82 67	87 69	86 68	85 63	81 67	82 67	85 63	84 64	86 65	85 65	87 67	85 71	86 66	86 68	87 70	85 64	85 65	86 64	84 68	87 66	86 69	83 62	85 62	86 64	86 62	85 63	87 64	87 69	84 69	84 64	85 69	85.1 65.9	
WAILUKU 386	MAX MIN	80 70	79 68	78 68	77 68			79 64	77 67	78 67	81 68	81 70		80 67	79 68	78 68	80 67	79 67			79 65	76 65	73 65	77 66			78 67		86 62	81 63	82 69	77 68	78.9 66.8	
• • •																																		
ISLAND OF HAWAII																																		
HAWAII VOLCNS NP HO 54	MAX MIN	64 54	63 52	59 53	58 51	61 49	58 48	70 48	58 51	64 52	63 50	65 53	62 51	62 51	59 53	59 51	60 50	64 49	61 49	60 50	59 51	57 51	63 49	60 50	60 52	61 48	66 48	70 47	66 55	67 55	65 56	64 56	62.2 51.1	
HILO WSO 87 AP	MAX MIN	78 68	77 68	78 68	81 67	80 68	78 68	78 66	83 66	83 66	80 65	84 67	80 67	78 65	83 68	81 67	80 65	82 64	80 66	79 65	80 66	80 65	80 65	77 65	80 65	84 62	84 60	86 63	86 66	82 65	81 67	81 67	80.8 65.8	
KAINALIU 73.2	MAX MIN	77 59	80 60	74 60	75 60	76 57	75 56	73 60	75 59	71 58	74 57	78 57	77 56	76 57	73 60	78 57	74 57	75 55	76 60	72 54	74 56	76 55	75 57	79 58	79 57	72 55	71 55	73 56	78 60	79 60	75 62	74 58	75.3 57.7	
KAMUELA 192.2	MAX MIN	72 58	70 57	69 54	69 57			67 57	64 45	70 44	76 53	75 54		76 54	71 57	69 55	69 54				69 55	68 55	67 54	65 53	67 55				78 42	75 53	70 57	70 57	70.3 53.8	
KAPOHO BEACH 93.11	MAX MIN																																	
KEAAU 92	MAX MIN	77 65	76 64	75 63	76 64	77 63	76 63	75 63	75 62	78 63	78 63	79 64	79 64	76 63	74 63	78 64	76 63	77 62	77 62	84 62	75 63	77 64	78 62	76 62	72 62	77 61	79 60	78 61	84 61	84 63	80 64	81 64	77.6 62.8	
KEALAKEUA 2 28.7	MAX MIN	79 62	79 62	76 62	76 61	78 62	78 60	74 61	76 61	76 60	72 60			78 60	76 63	76 60	77 59	78 63		77 57	78 60	78 60	75 59	73 58	77 59	79 63	78 62	75 64	73 60				76.5 60.6	
KOHALA MISSION 175.1	MAX MIN	77 67	76 64	76 65	73 64	73 64	75 63	73 63	71 63	76 67	78 64	78 64	80 64	76 65	72 65	76 62	76 63	76 66	77 63	74 63	76 63	73 63	74 63	74 62	73 62	76 62	78 59	79 59	81 64	81 64	77 62	82 63	76.0 63.4	
KONA IKAILUAI 68.3	MAX MIN	83 69	84 71	83 69	82 68			83 65	82 68		85 63			83 66	81 68	83 69	83 67	82 67				82 63	81 64	81 65	80 66	78 66				85 67	83 69	78 70	80 68	
KULANI CAMP 79	MAX MIN	58 45	58 45	58 48	52 48	56 44	56 43	50 49	55 45	59 43	60 40	58 48	57 46	56 45	55 40	55 47	54 51	58 45	58 46	52 47	55 47		57 45	55 45	59 47	58 42	59 36	64 37	65 49	69 50	70 58	69 48	58.2 46.4	
MAUNA LOA SLOPE 085	MAX MIN	44 31	45 30	40 32	47 31	45 32	49 32	55 39	56 42	62 43	58 38	54 36	48 33	45 34	46 33	46 33	50 31	49 31	49 32	43 27	41 29	42 28	47 29	48 30	50 31	50 29	50 30	48 32	54 35	46 36	52 35	52 36	48.7 32.9	
MOUNTAIN VIEW 91	MAX MIN	70 61	70 59	68 60	69 59	71 58	70 58	70 58	68 58	73 59	73 58	72 60	72 59	69 59	69 59	72 59	72 58	71 58	71 58	68 58	68 58	71 58	71 58	67 59	71 57	76 54	78 56	78 56	79 60	76 61	78 61		71.7 58.4	
NAALEHU 14	MAX MIN	76 63	75 64	77 63	74 64			77 63	75 66	77 66	76 65	78 65		78 64	75 64	76 63	76 64				76 63	76 63	75 64	74 65	76 64				80 63	78 63	74 64	78 63	76.2 63.9	
OOKALA 223	MAX MIN	75 63	76 64	75 63	69 63	72 65	75 64	80 63	72 62	77 64	79 64	80 63	82 62	77 63	70 65	75 64	78 64	76 63	75 60	76 64	76 62	75 61	74 61	74 62	75 62	79 62	79 65	77 62	79 65	79 64	78 65	77 65	76.0 63.2	
OPIHIHALE 2 24.1	MAX MIN	81 61	76 63	75 62	76 61	77 62	77 63	78 62	76 63	76 60	79 62	79 58	79 61	80 63	80 64	80 59	78 59	79 61	75 57	80 59	77 57	77 57	79 58	74 60	77 55	72 57	75 59	81 65	87 66	80 68	73 65	80 63	77.8 61.1	
PAHALA 21	MAX MIN	79 62	79 61	80 61	75 64			81 59	81 63	79 62	78 63	78 64		79 63	79 63	77 62	78 63	79 64				79 62	80 62	79 61	80 64	80 59			80 60	78 62	74 64	75 64	78.6 62.3	
PUUKOHOLA HEIAU 98.1	MAX MIN	83 70	88 58	89 59	89 59	89 58		83 52	87 59	87 57	86 56	84 55	80 58	79 58	87 57	87 57	91 57	91 57	87 57	88 57	89 57	80 57	88 58	88 55	86 55	87 54	85 56	85 60	86 57	86 57	82 60	74 58	85.7 57.2	
SOUTH KONA 2.31	MAX MIN	74 59	74 58	74 59	70 59	74 58	74 53	74 52	74 59	75 57	70 56	73 55	76 58	74 58	72 57	73 57	75 57	74 59	75 56	72 57	75 59	73 56	75 57	72 55	71 55	71 54	77 53	77 60	78 57	71 60	67 60	69 58	73.3 57.2	
UPOLO POINT USCG 159.2	MAX MIN	81 58	81 67	80 67	75 66	80 68	80 65	75 64	76 62	80 66	83 67	83 67	83 64	80 68	77 67	81 66	80 66	81 68	80 65	81 65	78 65	81 66	78 65	78 64	78 64	81 65	83 65	83 69	83 68	78 69	81 68	81 68	79.8 65.7	

SEE REFERENCE NOTES FOLLOWING STATION INDEX

# DAILY TEMPERATURES

HAWAII AND PACIFIC  
MARCH 1977

STATION		DAY OF MONTH																															AVERAGE
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
PACIFIC																																	
• • •																																	
EAST OF 180TH MERIDIAN																																	
CANTON ISLAND	MAX MIN	89 81	90 80	91 80	90 80	90 81	90 81	90 81	91 81	90 80	92 81	83 76	84 76	88 76	88 77	89 81	89 80	88 81	90 81	88 81	89 80	89 80	88 80	90 81	85 79		89 79	89 77	89 81	89 81	88.8 79.7		
JOHNSTON WSO AP	MAX MIN	80 73	81 75	81 76	79 75	79 71	79 73	80 71	80 73	81 73	81 73	82 74	82 74	81 73	81 72	81 76	79 76	80 74	79 75	80 70	80 73	81 70	80 71	80 69	81 70	80 69	81 72	81 73	80 71	82 72	80.5 73.0		
LEONE	MAX MIN	92 88	92 87	91 87	92 85	91 84	92 86	92 85	91 83	91 85	93 79	83 81	85 77	84 81	86 77	87 80	88 84	94 82	87 82	86 79	87 83	90 82	91 81	93 84	88 80	93 83	91 80	92 85	91 85	92 83	89.6 82.6		
FRENCH FRIGATE SHOALS	MAX MIN	74 64	74 64	73 69	71 64	79 68	79 68	77 65	77 68	78 67	77 66	78 67	78 69	74 67	75 69	78 70	77 69	78 69	77 64	74 68	78 68	77 68	77 67	78 67	77 60	74 61	75 64	77 64	70 60	80 60	76.4 66.1		
MIDWAY SAND ISLAND	MAX MIN	72 62	74 62	68 61	68 62	71 64	71 65	73 66	71 60	64 55	68 61	67 59	67 60	66 61	69 62	71 56	74 65	76 62	70 62	71 66	76 66	75 68	76 52	68 51	62 54	62 56	63 56	64 56	64 57	68 58	67 56	69.0 60.1	
PAGO PAGO WSO AP	MAX MIN	88 80	88 77	89 75	88 74	89 74	88 76	87 76	88 78	90 77	88 78	88 79	84 75	84 74	83 75	84 77	85 76	87 77	89 76	85 76	87 75	85 76	86 76	86 74	87 73	87 75	88 79	87 76	89 74	88 73	88 75	86.9 75.9	
SWAINS ISLAND	MAX MIN																																
• • •																																	
WESTERN PACIFIC ISL. NORTH OF 12 N																																	
ANDERSEN AFB GUAM	MAX MIN	83 75	84 78	83 76	81 75	81 73	78 73	82 72	81 76	80 73	82 75	82 76	83 76	82 76	80 73	81 73	82 74	82 75	80 75	82 75	80 72	81 75	82 75	80 72	79 73	82 73	82 76	81 75	81 74	81 75	82 75	81.2 74.5	
CLARK AFB LUZON	MAX MIN	90 75	95 73	93 73	86 68	81 64	82 63	86 66	91 70	90 73	90 72	90 73	91 72	93 68	90 72	91 72	91 70	91 72	91 73	86 73	86 75	91 72	84 75	93 75	90 73	91 72	93 73	95 77	93 77	93 75	93 75	90.2 72.0	
GUAM NAS	MAX MIN	84 75	84 76	85 76	86 76	85 74	83 74	85 75	85 77	85 76	86 76	85 78	85 77	84 77	84 76	83 75	85 76	85 76	83 76	85 76	84 75	86 76	84 77	84 74	83 76	86 76	85 76	85 76	85 78	84.7 76.0			
GUAM WSMO	MAX MIN	82 71	84 73	84 71	85 68	84 71	81 70	84 71	84 72	83 70	85 73	85 73	86 74	85 72	84 71	83 71	82 71	83 72	85 73	85 74	84 71	84 72	83 69	83 74	82 70	85 70	84 71	84 71	84 72	85 74	83.8 71.5		
SAIPAN LORAN	MAX MIN																																
WAKE WSO AP	MAX MIN	84 73	85 73	84 73	84 74	86 74	85 74	82 69	85 70	83 71	84 72	83 72	84 72	82 68	81 65	82 70	79 69	81 70	80 73	84 69	86 75	82 71	77 69	76 69	78 67	80 67	82 68	82 70	82 72	82 71	82 70	82.3 70.8	
• • •																																	
CAROLINE AND MARSHALL ISLANDS																																	
ENIWETAK	MAX MIN	84 78	85 77	84 80	84 79	84 74	83 78	82 78	84 75	84 79	84 80	84 75	86 79	84 76	84 80	85 79	83 79	84 79	84 79	83 79	84 79	83 79	85 79	84 80	85 80	84 80	82 79	82 80	82 79	84 79	84 80	83.8 78.5	
FALALOP I. ULITHI	MAX MIN																																
KAPINGAMARANGI ATOLL	MAX MIN	88 74	85 74	89 74	88 74	87 75	88 74	85 70	85 72	91 76	88 75	90 75	89 75	88 76	88 75	87 75	86 74	87 75	86 75	89 75	90 74	88 75	85 76	85 72	89 75	90 76	88 75	89 76	88 75	89 74	89 74	88.1 74.8	
KOROR WSO	MAX MIN	88 74	89 75	88 74	88 74	89 73	88 77	87 74	89 77	89 75	87 74	88 76	88 77	89 77	88 73	88 75	89 75	89 75	87 74	87 74	90 75	88 77	88 77	88 77	87 76	87 74	89 77	89 76	89 77	89 75	89 77	88.2 75.3	
KWAJALEIN MISSILE RGN	MAX MIN	88 78	87 76	89 78	87 78	88 76	88 74	85 74	88 79	89 79	88 77	87 77	88 78	82 76	87 79	86 77	87 75	87 79	86 78	86 77	86 78	87 78	86 75	86 79	86 80	87 80	87 78	86 79	86 76	88 79	88 78	86.9 77.3	
LELE I. KUSAIE	MAX MIN	88 79	89 79	89 78	88 79	90 79	90 79	89 79	90 76	90 76	91 80	91 80	87 77	87 73	88 72	85 74	87 71	87 75	88 76	89 73	90 71	85 73	84 72	86 72	88 71	88 73	86 75	86 73	87 72	88 74	88 74	88.0 74.7	
MAJURO WSO AP	MAX MIN	86 75	85 77	87 79	87 79	88 76	85 75	85 76	87 79	87 79	87 77	87 76	87 77	86 75	86 75	87 79	86 76	87 76	87 76	86 75	86 78	85 77	86 78	86 77	85 78	86 77	85 78	86 77	85 78	85 77	85 77	86.3 76.6	
METALANIM	MAX MIN	86 80	85 80	86 75	87 74	88 81	86 79	86 81	88 79	86 76	87 79	86 76	86 82	87 81	82 77	85 77	85 76	87 80	84 78	88 81	86 79	87 74	83 79	85 77	88 79	87 81	86 79	86 78	87 79	85 77	85 79	86.0 77.8	
PONAPE WSO	MAX MIN	89 77	88 74	88 76	90 76	88 75	88 78	84 74	87 74	87 75	83 78	87 78	87 78	89 78	86 77	87 76	88 74	88 78	87 76	89 75	89 78	89 75	88 79	87 75	88 79	87 77	88 75	83 74	86 74	88 76	87 78	87.4 76.3	
SATAWAN ATOLL	MAX MIN																																
TRUK. MOEN I. WSO AP	MAX MIN	85 76	87 78	87 77	86 75	86 75	86 80	86 77	87 79	85 74	82 74	84 75	87 75	85 76	85 78	87 78	86 79	87 78	87 77	86 75	87 79	86 79	87 79	87 75	87 78	86 75	87 74	87 77	85 76	84 74	86.1 76.6		
WOLEAI ATOLL	MAX MIN	88 75	87 72	86 71	85 70	86 70	87 73	87 73	88 76	87 64	86 71	86 71	85 70	85 68	86 71	87 78	89 73	86 74	86 72	89 74	85 72	89 68	89 78	86 78	89 78	89 79	89 78	88 68	87 73	86 76	87.0 73.1		
YAP WSO AP	MAX MIN	86 72	86 74	85 72	88 74	88 74	88 77	87 74	87 76	88 74	88 75	87 74	87 74	88 78	87 77	88 74	88 72	88 74	88 75	88 75	88 77	88 75	88 76	88 75	88 75	88 77	89 77	89 76	88 74	88 77	87.7 75.1		

SEE REFERENCE NOTES FOLLOWING STATION INDEX

# EVAPORATION AND WIND

HAWAII AND PACIFIC  
MARCH 1977

STATION	DAY OF MONTH																															TOTAL OR AVG.
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
HAWAII																																
ISLAND OF KAUAI																																
LIHUE WSO 1020.1 AP	EVAP WIND MAX MIN	.28 266 81 67	.25 305 83 66	.38 286 83 66	.15 301 80 65	.38 300 80 64	.33 316 79 63	.31 329 77 64	.32 273 80 64	.13 245 80 63	.36 164 82 63	.37 211 87 63	.23 262 86 67	.29 262 81 67	.30 270 82 67	.33 294 83 66	.33 300 83 65	.39 303 85 65	.33 333 79 63	.62 308 81 63	.34 300 81 64	.38 290 82 64	.43 297 78 63	.39 304 81 63	.35 286 79 62	.36 261 82 65	.37 146 86 64	.55 263 86 64	.36 117 86 63	.36 117 85 64	.09 107 85 63	9.73 7816 82.2 64.3
ISLAND OF OAHU																																
HONOLULU OBSERV 702.2	EVAP WIND MAX MIN	.39 48 86 67	.49 75 89 66	.40 47 86 66	.47 60 87 65	.33 70 87 64	.21 54 82 65	.44 67 84 65	.35 60 85 65	.34 44 84 64	.30 37 89 65	.49 46 90 66	.32 53 85 66	.35 48 86 65	.36 51 88 67	.45 74 85 66	.56 68 89 64	.45 60 86 64	.35 69 87 64	.51 69 87 63	.39 58 88 61	.45 63 88 64	.50 65 87 63	.45 54 85 63	.37 58 89 63	.45 56 87 65	.24 46 87 65	.34 31 92 64	.31 69 92 64	.17 38 89 68	.28 70 88 67	11.898 1767 87.4 64.9

SEE REFERENCE NOTES FOLLOWING STATION INDEX

# EVAPORATION AND WIND

HAWAII AND PACIFIC  
MARCH 1977

STATION	DAY OF MONTH																															TOTAL OR AVG.	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
PACIFIC																																	
■ ■ ■ EAST OF 180TH MERIDIAN																																	
JOHNSTON WSO AP	EVAP	.35	.37	.44	.37	.42	.42	.56	.36	.18	.23	.49	.19	.29	.32	.22	.18	.39	.45	.39	.40	.36	.39	.43	.30	.41	.31	.41	.37	.42	.26	.29	10.97
	WIND	214	284	286	318	370	377	308	285	211	205	187	75	77	133	168	258	320	315	256	279	273	297	288	244	198	96	181	115	161	150	143	7072
	MAX	83	-	-	-	-	-	85	86	86	90	92	95	97	91	91	86	86	86	85	84	86	85	85	86	90	92	95	89	87	89	90	88.3
	MIN	66	-	-	-	-	-	73	69	69	71	70	71	72	71	72	72	72	72	70	70	70	70	70	70	68	68	68	66	67	67	68	69.7
■ ■ ■ WESTERN PACIFIC ISL. NORTH OF 12° N																																	
GUAM WSMO	EVAP	.19	.25	.26	.23	.28	.23	.29	.29	.18	.28	.23	.25	.34	.31	.25	.26	.28	.32	.17	.25	.23	.20	.30	.27	.26	.29	.31	.27	.32	.32	.29	8.20
	WIND	134	146	152	130	144	188	190	202	151	96	115	165	170	139	167	157	157	184	169	188	127	121	203	181	218	256	209	122	173	181	201	5136
	MAX	86	88	89	90	89	85	90	89	90	91	89	91	88	90	88	85	90	88	86	90	91	88	89	86	87	88	87	89	89	88	89	88.5
	MIN	71	70	71	68	71	71	71	71	70	71	72	73	72	70	71	72	72	70	71	72	71	72	71	70	71	72	70	68	70	70	71	70.8

SEE REFERENCE NOTES FOLLOWING STATION INDEX



## STATION INDEX

HAWAII AND PACIFIC  
MARCH 1977

STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES				OBSERVER
								TEMP.	PRECIP.	EVAP.	SPECIAL (SEE NOTES)	
HAWAII												
ISLAND OF KAUAI												
ALEXANDER RESV. 983	0140	02	KOLOA	2	21 57	159 32	1610					MCBRYOE SUGAR CO.
ANAHOLA 1114	A 0145	01	KAWAIIHAU	1	22 08	159 18	180		7A			LIHUE PLANTATION CO
BRYOESWOOD STA 985	A 0240	02	KOLOA	2	21 56	159 32	720		7A			MC BRYOE SUG CO LTO
EAST LAWA 934	A 0456	02	KOLOA	2	21 55	159 30	440		7A			MC BRYOE SUG CO LTO
ELEELE 927	A 0470	02	KOLOA	2	21 54	159 35	163		6A			MC BRYOE SUG CO LTO
HALAULA 1110	A 0935	01	KAWAIIHAU	1	22 07	159 19	253		7A			LIHUE PLTN CO LTO
HALENANAO 1006	A 1038	02	LIHUE	2	21 58	159 26	490		8A			LIHUE PLANTATION CO
HANAIEI TUNNEL 1053	A 1170	01	KAWAIIHAU	1	22 05	159 28	1218					LIHUE PLTN CO LTO
HUKIPO 945	A 2161	03	WAIMEA	3	21 59	159 41	800		8A			KEKAHA SUGAR CO LTO
ILILIULA INTAKE 1050	A 2222	02	LIHUE	2	22 02	159 28	1050		VAR			LIHUE PLTN CO LTO
INTAKE WAINIHA PC 1086	A 2227	01	HANAIEI	1	22 09	159 34	690		W1			MC BRYOE SUG CO LTO
KANALOHLULU 1075	A 3099	03	WAIMEA	3	22 08	159 40	3600	7A	7A			STATE DIVISION OF PARKS
KANEHA RESERVOIR 1092	A 3104	01	KAWAIIHAU	1	22 08	159 23	830		7A			LIHUE PLANTATION
KAPAA STABLES 1104	A 3159	01	KAWAIIHAU	1	22 05	159 20	175		7A			LIHUE PLTN CO LTO
KEALIA 1112	A 3982	01	KAWAIIHAU	1	22 06	159 19	9		7A			LIHUE PLTN CO LTO
KEKAHA 944	A 4272	03	WAIMEA	3	21 58	159 43	9		8A			KEKAHA SUGAR CO LTO
KILAUEA 1134	A 4561	01	HANAIEI	1	22 13	159 25	320		7A			NICK RAPDOZO
KILAUEA POINT 1133	A 4568	01	HANAIEI	1	22 14	159 24	180	8A	8A			MELVALEIGH SEILLEMAKER
KOLO 1033	A 4735	03	WAIMEA	3	22 04	159 46	36		7A			KEKAHA SUGAR CO LTO
KOLOA 936	A 4742	02	KOLOA	2	21 55	159 28	240		8A			MCBRYOE SUGAR CO
KOLOA LN (MAK) 940.1	A 4748	01	KAUAI	2	21 52	159 27	52	7A	7A			AUSCG LDRAN STATION
KOLOA MAUKA 994	A 4750	02	KOLOA	2	21 57	159 29	640		7A			MCBRYOE SUGAR COMPANY
KUKULULA 935	A 4950	02	KOLOA	2	21 54	159 30	100		6A			MC BRYOE SUG CO LTO
LIHUE VARIETY ST 1062	A 5560	02	LIHUE	2	22 01	159 23	380		7A			LIHUE PLANTATION CO LTO
LIHUE 1020	A 5575	02	LIHUE	2	21 59	159 22	207		7A			LIHUE PLTN CO LTO
LIHUE WSO 1020.1 AP	R 5580	02	LIHUE	2	21 59	159 21	103	MIO	MIO	MIO	J	NATL WEATHER SERVICE
MAKAWELI 965	A 5864	03	WAIMEA	3	21 55	159 38	140		7A			OLOKELE SUGAR CO
MANA 1026	A 6082	03	WAIMEA	3	22 02	159 46	20	8A	8A			KEKAHA SUGAR CO LTO
MOHIHI UPR CROSS 1083	A 6433	01	WAIMEA	3	22 07	159 36	3500		MIO			U S GEO SURVEY
MOLOAA 1145	A 6529	01	KAWAIIHAU	1	22 11	159 20	330		7A			THEODORE JAVELLANA JR
MOUNT WAIALEALE 1047	R 6565	03	WAIMEA	2	22 04	159 30	5148		MIO			U. S. GEO. SURVEY
NIU RIDGE 1035	A 6850	03	WAIMEA	3	22 02	159 44	1250	6A	6A			KEKAHA SUGAR CO LTO
N WAILUA DITCH 1051	A 6888	02	LIHUE	2	22 04	159 28	1110		7A			LIHUE PLTN CO LTO
N WAILUA RIVER 1055	A 6893	02	KIHUE	2	22 04	159 26	650					LIHUE PLTN CO LTO
PH WAINIHA 1115	A 8155	01	HANAIEI	1	22 12	159 34	101		6A			MC BRYOE SUG CO LTO
PRINCEVILLE RANCH 1117	A 8165	01	HANAIEI	1	22 13	159 29	295		9A			PRINCEVILLE RANCH INC
PUEHU RIDGE 1040	A 8205	03	WAIMEA	3	22 01	159 42	1660		8A			KEKAHA SUGAR CO LTO
PUHI 1013	A 8217	02	LIHUE	2	21 58	159 24	329		8A			LIHUE PLANTATION CO
STABLE CAMP 1055.1	A 8694	02	LIHUE	2	22 04	159 27	740					LIHUE PLANTATION CO LTO
WAIHAWA 930	A 8941	02	KOLOA	2	21 54	159 34	215		7A			MC BRYOE SUG CO LTO
WAIHAI LOWER 1054	A 8958	02	LIHUE	2	22 01	159 27	565	6A	6A			LIHUE PLTN CO LTO
WAIHAI UPPER 1052	A 8966	02	LIHUE	2	22 01	159 28	780		6A			LIHUE PLTN CO LTO
WAIHAWA 943	A 9253	03	WAIMEA	3	21 59	159 43	10		8A			KEKAHA SUGAR CO LTO
WAILUA KAI 1065	A 9467	02	LIHUE	2	22 02	159 21	50		7A			LIHUE PLANTATION
WAIMEA 947	A 9629	03	WAIMEA	3	21 58	159 41	20		8A			KEKAHA SUGAR CO.
WEST LAWA 931	A 9955	02	KOLOA	2	21 54	159 31	210		6A			MC BRYOE SUG CO LTO
ISLAND OF OAHU												
AHIIMANU LOOP 839.12	A 0055	01	KOOLAUPOKO	1	21 26	157 51	320					DON MITCHELL
ALOHA STADIUM-HALAWA	A 0172	03	OAHU	3	21 23	157 56	40	8A	8A			ALOHA STADIUM
BERETANIA PUMPING STA	A 0211	02	HONOLULU	2	21 19	157 51	20		9A			BOARD OF WTR SUPPLY
B Y U LAIE 903.1	A 0240	01	KOOLAUPOKO	1	21 39	157 56	20	12M	12M			B Y U-HAWAII CAMPUS
CAMPBELL INO PK 702.5	A 0248	02	OAHU	3	21 19	158 07	10		8A			CHEVRON U S A INC
CAMP 84 807	A 0300	03	EWA	3	21 26	158 04	760		6A			OEL MONTE CORPORATION
COCONUT ISLAND 840.1	A 0350	01	KOOLAUPOKO	1	21 26	157 47	15		8A			H INST MARINE BIOLOGY
OWSETT HIGHLDS 780.8	A 0438	02	HONOLULU	2	21 21	157 50	565					J.L. BANNING
EWA PLANTATION 741	A 0507	03	EWA	3	21 21	158 02	5	9A	7A			OAHU SUGAR COMPANY
HALAWA SHAFT 771.2	A 0964	02	HONOLULU	2	21 23	157 54	170					BOARD OF WATER SUPPLY
HELEMANO INTAKE 881	A 1384	05	WAILUA	5	21 33	158 00	1274		W1			WAILUA SUGAR CO. INC.
HOKULOA 725.2	A 1540	03	EWA	3	21 24	158 06	2220					H. V. VON HOLT
HONOLULU OBSERV 702.2	A 1918	03	EWA	3	21 19	158 00	5		9A	9A		NATIONAL WEATHER SERV
HONOLULU WSO 703 AP	R 1919	02	HONOLULU	2	21 20	157 55	7	MIO	MIO		J	NATL WEATHER SERVICE
KAA LAKEI 724.6	A 2269	02	HONOLULU	2	21 18	157 43	10					MRS. MILLIE ZAPATA
KAENA POINT 841.3	A 2410	04	WAILUA	4	21 34	158 15	1240		9A			U S AIR FORCE
KAHANA 883	A 2462	01	KOOLAUPOKO	1	21 31	157 54	800		W1			WAIHOLE WTR CO LTO
KAHUKU 912	A 2570	01	KOOLAUPOKO	1	21 42	157 59	15					KIULIMA HOTEL

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								TEMP.	PRECIP.	EVAP.	SPECIAL (SEE NOTES)	
ISLAND OF OAHU												
KAILUA FIRE STA 791.3	2683	01	KOOLAUPOKO	1	21 24	157 45	10		8A		C	KAILUA FIRE STATION GRODEN HARGER BOARD OF WTR SUPPLY STATE HOSPITAL KAMEHAMEHA SCHOOLS WAIALUA SUGAR CO. INC. WAIALUA SUGAR CO. INC. C & F OFFICER HEOG NATIONAL WEATHER SERV HAROLD ROBERTS
KALAMA VALLEY 724-13	2842	02	OAHU	2	21 18	157 41	75				C	
KALIHI RES SITE 777	R 2960	02	HONOLULU	2	21 23	157 50	910		MIO			
KANEHOE MAUKA 781	3113	01	KOOLAUPOKO	1	21 25	157 49	325	7A	7A			
KAPALAMA 773	A 3268	02	HONOLULU	2	21 21	157 52	614		8A			
KAWAIHAPAI 841	A 3734	05	WAIALUA	5	21 35	158 11	40		7A			
KEMOO CAMP 8 855	A 4318	05	WAIALUA	5	21 33	158 05	725		7A			
KOOLAU DAM 833	A 4766	05	WAIHAWA	5	21 30	157 58	1160		8A			
LULUKU 781.7	5655	01	KOOLAUPOKO	1	21 24	157 49	240				C	
MAKAHA KAI 796.1	A 5766	04	WAIANAE	4	21 28	158 13	15		7A			
MAKAHA PUMP 800.2	A 5782	04	OAHU	4	21 29	158 12	400		8A		C	CAPITAL INVESTMENT CO. NEAL ADAMS MRS. JOHN H. BEAUMONT LYON ARBORETUM BOARD OF WTR SUPPLY EXP. STA. H.S.P.A. JOHN A. ROXBURGH CHESTER T. KAINUMA FEDERAL AVIATION ADM BOARD OF WTR SUPPLY
MAKAKILO 730.1	5789	03	OAHU	3	21 21	158 06	300		6A			
MANOA 712.1	6122	02	HONOLULU	2	21 19	157 49	220		7A			
MANOA LYON ARBORETUM	6128	02	OAHU	2	21 20	157 48	500	8A	8A			
MANOA TUNNEL 2 716	R 6130	02	HONOLULU	2	21 20	157 48	650		MIO			
MAUNAWILI 787.1	6222	01	KOOLAUPOKO	1	21 21	157 46	395				C	
MOANALUA 770	6395	02	HONOLULU	2	21 21	157 54	20		9A			
MOMILANI 835.1	6547	03	OAHU	3	21 25	157 58	325				C	
MOUNT KAALA 844	6553	04	WAIANAE	4	21 31	158 09	4015				C	
NUUANU RES 4 783	6928	02	HONOLULU	2	21 21	157 49	1048		MIO			
NUUANU RESERV 5 775	A 6933	02	HONOLULU	2	21 21	157 50	410		WI			BOARD OF WTR SUPPLY WAIALUA SUGAR CO. INC. O L GRUBB CC DEPT PKS RECREATION BOARD OF WTR SUPPLY BOARD OF WTR SUPPLY MRS DAVID OELAO NAT MEM CEMETERY JACK N. WHEELER HUGH HAMILTON
OPAEULA 870	A 7150	05	WAIALUA	5	21 34	158 02	1060	7A	7A		C	
PAIKO OR 723.4	7540	02	HONOLULU	2	21 17	157 44	10		7A			
PALI GOLF COURSE 788.1	7656	01	OAHU	1	21 23	157 47	480		10A			
PALOLO VALLEY 718	R 7664	02	HONOLULU	2	21 20	157 46	995		MIO			
PAUOA FLATS 784	R 7810	02	HONOLULU	2	21 21	157 48	1640		MIO			
PUNALUU PUMP 905.2	8314	01	KOOLAUPOKO	1	21 35	157 54	20				C	
PUNCHBOWL CRATER 709	A 8316	02	HONOLULU	2	21 19	157 51	360		8A			
PUPUKA HEIGHTS 896.4	8342	01	WAIALUA	1	21 39	158 02	900				C	
PUU MANAWAHUA 725.6	8500	03	OAHU	3	21 23	158 05	2080		8A			
SEA LIFE PARK 724.14	8665	01	OAHU	1	21 19	157 40	40				C	SEA LIFE PARK R. E. WHITE DEPT OF GEOSCIENCE W B RUTHERFORD WAIALUA SUGAR CO. INC. WAIHOLE WTR CO LTO SPENCER TINKER WAIALEE LIVESK RES FARM WAIALUA SUGAR CO. INC. BEN MAYES
TANTALUS 2 780.5	8738	02	HONOLULU	2	21 20	157 50	1325		7A			
UNIV OF HAWAII 713	A 8815	02	HONOLULU	2	21 18	157 49	79		8A			
UPPER WAIHAWA 874.3	8838	05	OAHU	5	21 31	158 01	1115		6A			
WAIHAWA DAM 863	A 8945	05	WAIHAWA	5	21 30	158 03	854		7A		C	
WAIHOLE 837	A 8964	01	KOOLAUPOKO	1	21 28	157 53	745		8A		C	
WAIALAE KAHALA 715	9185	02	HONOLULU	2	21 17	157 47	40		7A			
WAIALEE 896.3	9190	01	KOOLAUPOKO	1	21 41	158 02	33	8A	8A			
WAIALUA 847	A 9195	05	WAIALUA	5	21 35	158 07	32	7A	7A		C	
WAIANAE 798.2	A 9231	04	WAIANAE	4	21 27	158 11	10		7A			
WAIANAE KAWIWI 801.1	9234	04	OAHU	4	21 28	158 11	40				C	MOUNTAIN VIEW DAIRY WAIHOLE WTR CO LTO WAIHOLE WTR CO LTO HONOLULU ZOO WAILUPE VALLEY SCHOOL WAIMANALO EXP FARM WAIMANALO EXP FARM WAIALUA SUGAR CO. INC. WAIHOLE WATER COMPANY BOARD OF WTR SUPPLY
WAIHAWA 836	A 9261	03	EWA	3	21 28	157 56	800		MO			
WAIKANE 885	A 9340	01	KOOLAUPOKO	1	21 30	157 53	760		WI			
WAIKIKI 717.2	9397	02	HONOLULU	2	21 16	157 49	10	8A	8A			
WAILUPE VLY SCH 723.6	9500	02	HONOLULU	2	21 18	157 45	180				C	
WAIMANALO EXP FARM	9523	01	KOOLAUPOKO	1	21 20	157 43	60	7A	7A			
WAIMANALO NONOKI 795.2	9534	01	OAHU	1	21 20	157 43	120				C	
WAIMEA 892	A 9593	05	WAIALUA	5	21 38	158 04	330		7A		C	
WAIPIAHU 750	A 9738	03	EWA	3	21 23	158 01	59		8A			
WILHELMINA RISE 721	R 9980	02	HONOLULU	2	21 18	157 47	1100		MIO			
ISLAND OF MOLOKAI												
KALAUPAPA 563	A 2896	01	MOLOKAI	1	21 12	156 59	30		8A			KALAUPAPA SETTLEMENT MOLOKAI RANCH LTO MOLOKAI GENERAL HOSP. MOLOKAI RANCH, LTO. OEL MONTE CORPORATION MOLOKAI RANCH COMPANY ALOHA AIRLINES PUU O HOKU RANCH MOLOKAI RANCH COMPANY
KAUNAKAKAI 536	3541	01	MOLOKAI	1	21 06	157 01	12		7A			
KAUNAKAKAI MAUKA 536.5	3547	01	MOLOKAI	1	21 06	157 01	70				C	
KEONELELE PENS 551	A 4394	01	MOLOKAI	1	21 12	157 12	560		VAR			
KUALAPUU 534	A 4778	01	MOLOKAI	1	21 09	157 02	825		7A		C	
MAUNALO 511	A 6190	01	MOLOKAI	1	21 08	157 13	1070		9A		C	
MOLOKAI AP 524	6534	01	MOLOKAI	1	21 09	157 06	450	8A	8A			
PUU O HOKU RANCH 542.1	8549	01	MOLOKAI	1	21 09	156 44	700		6A		C	
WAIKOLU 540	A 9404	01	MOLOKAI	1	21 08	156 55	3550		WI			
ISLAND OF LANAI												
KANEPUU 690	A 3130	01	LAHAINA	1	20 52	157 00	1650		WI			U S O A OOLE COMPANY HAWAIIAN AIR OOLE COMPANY U S O A
KAUMALAPUU HARBOR 658	3461	01	LAHAINA	1	20 47	157 00	30		8A		C	
LANAI AIRPORT 656	5275	01	LAHAINA	1	20 48	156 57	1300		8A			
LANAI CITY 672	A 5286	01	LAHAINA	1	20 50	156 55	1620	7A	7A		C	
LANAIHALE 684	A 5301	01	LAHAINA	1	20 49	156 53	3370		WI			

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ISLAND OF LANAI												
MAHANA 694	A 5704	01	LAHAINA	1	20 52	156 55	1430		MO			U S O A
MALAUER 676	A 6012	01	LAHAINA	1	20 46	156 55	1150		WI			U S O A
WAIKAEKUA 685	A 9021	01	LAHAINA	1	20 47	156 52	2000		WM			KOELE COMPANY
ISLAND OF MAUI												
AUWAHI 252	A 0175	02	HANA	2	20 37	156 20	2060		VAR			ULUPALAKUA RANCH
HAELAAU 477	A 0790	04	LAHAINA	4	20 57	156 36	2980					S MAUI LANO-PINEAPPLE CO
HALEAKALA 8 E S 434	A 0995	01	MAKAWAO	1	20 51	156 18	2100		7A			U OF H AGRIC EXP STA
HALEAKALA RANCH 432	A 0999	01	MAKAWAO	1	20 50	156 19	1850		8A			HALEAKALA RANCH CO
HALEAKALA RS 338	A 1004	02	MAKAWAO	2	20 46	156 15	7030	8A	8A			HALEAKALA NAT PARK
HALIIMAILE 423	A 1075	01	MAKAWAO	1	20 52	156 21	1070		3A			MAUI LANO-PINEAPPLE CO
HAMAKUAPOKO 485	A 1086	01	MAKAWAO	1	20 55	156 21	320		5A			HAWAIIAN COM & SUG CO
HANA 354	A 1122	01	HANA	1	20 45	155 59	120		8A			HARRY HASEGAWA
HANA AIRPORT 355	A 1125	01	HANA	1	20 48	156 01	61	8A	8A			ROYAL HAWAIIAN AIRLINES
HOLUA CABIN 259.5	A 1552	02	MAKAWAO	2	20 45	156 13	6930		MO			HALEAKALA NATL PARK RGS
HONOKOHU 480	A 1882	04	LAHAINA	4	20 58	156 36	870		MO			MAUI LANO-PINEAPPLE CO
HONOKOHU 493	A 1887	04	LAHAINA	4	21 00	156 39	135		6A			MAUI LANO-PINEAPPLE CO
HONOLUA FLO 49 494	A 1914	04	LAHAINA	4	21 01	156 38	125					S MAUI LANO-PINEAPPLE CO
HONOMANU GULCH 341	A 1935	01	MAKAWAO	1	20 47	156 14	6280		MO			HALEAKALA RANCH CO
IAO NEEOLE 387.2	A 2208	03	WAILUKU	3	20 53	156 33	1080					C STATE DIVISION OF PARKS
KAAHAPALI AP 453.1	A 2307	04	LAHAINA	4	20 56	156 42	8	8A	8A			C AMFAC PROPERTIES INC
KAHOMA INTAKE 374	A 2552	04	LAHAINA	4	20 54	156 38	2000		WI			C PIONEER MILL CO LTO
KAHULUI WSO 398 AP	R 2572	03	WAILUKU	3	20 54	156 26	48	MIO	MIO			C J NATL WEATHER SERVICE
KAILILI 436	A 2630	01	MAKAWAO	1	20 51	156 16	2520		MO			E MAUI IRR CO LTO
KAILUA 446	A 2679	01	MAKAWAO	1	20 54	156 13	700	7A	7A			E MAUI IRR CO LTO
KAUAULA INTAKE 375	A 3433	04	LAHAINA	4	20 53	156 38	1585		WI			C PIONEER MILL CO LTO
KAUPO RANCH HOUSE 259	A 3576	02	HANA	2	20 39	156 08	1020					C KAUPU RANCH
KEAHUA 410	A 3910	03	MAKAWAO	3	20 52	156 23	480		5A			C HAWAIIAN COM & SUG CO
KEANAE 346	A 4091	01	HANA	1	20 50	156 10	980		MO			C E MAUI IRR CO LTO
KEAWAKAPU BEACH 260.2	A 4193	02	MAKAWAO	2	20 42	156 27	20	8A	8A			C ALLEN L CORELL
KIHEI 311	A 4489	03	WAILUKU	3	20 47	156 27	90		7A			C HAWAIIAN COM & SUG CO
KIPAHULU 258	A 4634	01	HANA	1	20 39	156 04	260		7A			C HANA RANCH-KIPAHULU SEC
KUIAHA EXP STN	A 4840	01	MAUI	1	20 54	156 18	920					C U H AGRICULTURE EXP STN
KUKUI 380	A 4887	04	LAHAINA	4	20 54	156 35	5788					S MAUI LANO-PINEAPPLE CO
KULA HEIGHTS 323.2	A 5003	02	MAKAWAO	2	20 47	156 19	2520					C KENNETH WILLEY
KU'A SANATORIUM 267	A 5006	02	MAKAWAO	2	20 42	156 22	3004	7A	7A			C KULA SANATORIUM
LAHAINA 361	A 5177	04	LAHAINA	4	20 53	156 41	45	7A	7A			C PIONEER MILL CO LTO
LAUNIUPOKO INTAKE 376	A 5404	04	LAHAINA	4	20 51	156 37	1280		WI			C PIONEER MILL CO LTO
LAUNIUPOKO VILLAGE 372A	A 5408	04	LAHAINA	4	20 51	156 39	220		7A			C PIONEER MILL CO LTO
LUPI UPPER 442	A 5665	01	MAKAWAO	1	20 53	156 15	1240		MO			C E MAUI IRR CO LTO
MAHINAHINA 466	A 5715	04	LAHAINA	4	20 57	156 40	715		7A			C PIONEER MILL CO LTO
MOKUPEA 475	A 6521	04	LAHAINA	4	20 59	156 37	1290					S MAUI LANO-PINEAPPLE CO
NAKALELE FIELD 60 497	A 6645	04	LAHAINA	4	21 02	156 36	340		VAR			C MAUI LANO-PINEAPPLE CO
OLINDA 332	A 7040	01	MAKAWAO	1	20 48	156 17	4127		VAR			C EAST MAUI IRRIGATION CO
OWALU 296	A 7059	04	LAHAINA	4	20 49	156 38	7		7A			C PIONEER MILL CO LTO
PAAKA 350	A 7194	01	HANA	1	20 49	156 07	1260		VAR			C E MAUI IRR CO LTO
PAIA 406	A 7566	01	WAILUKU	1	20 55	156 23	170		6A			C HAWAIIAN COM & SUG CO
PANILEIHULU 259.2	A 7674	02	HANA	2	20 41	156 08	3570		MO			C KAUPU RANCH CO.
PEAHI 488.6	A 7952	01	MAUI	1	20 54	156 17	830		9A			C BERNARD RUPLINGER
POHAKA BRIDGE 307.2	A 8060	03	WAILUKU	3	20 49	156 31	167		6A			C WAILUKU SUGAR CO
POLIPOLI SPRINGS 267.2A	A 8070	02	MAKAWAO	2	20 41	156 20	6150		VAR			C STATE DIV OF FORESTRY
PUHOKAMOA 2 343	A 8336	01	HANA	1	20 50	156 13	2980		MO			C E MAUI IRR CO LTO
PUUNENE 396	A 8543	03	WAILUKU	3	20 53	156 27	60		7A			C HAWAIIAN COM & SUG CO
PUU PAHI 352	A 8553	01	HANA	1	20 46	156 03	2160					S EAST MAUI IRRIGATION CO
SPRECKELSVILLE 400.2	A 8688	03	WAILUKU	3	20 54	156 25	85		8A			C HAWAIIAN COM & SUG CO
TWIN GATES 261.3	A 8742	03	MAKAWAO	3	20 46	156 23	1310		VAR			C KAONOULU RANCH
UKULELE 333	A 8744	01	MAKAWAO	1	20 48	156 15	5230		MO			C HALEAKALA RANCH CO
UKUMEHAME 301	A 8750	04	LAHAINA	4	20 48	156 35	75		7A			C PIONEER MILL CO LTO
ULUPALAKUA RANCH 250	A 8760	02	MAKAWAO	2	20 39	156 24	1900		8A			C ULUPALAKUA RCH CO LTO
WAHIKULI 364	A 8955	04	LAHAINA	4	20 54	156 40	580		8A			C PIONEER MILL CO LTO
WAIHEU CAMP 484	A 9275	03	WAILUKU	3	20 55	156 31	320		6A			C WAILUKU SUGAR CO
WAIHEE VALLEY 482	A 9315	04	WAILUKU	4	20 57	156 32	300		6A			C WAILUKU SUGAR CO
WAIKAMOI 449	A 9332	01	HANA	1	20 52	156 12	1200		MO			C E MAUI IRR CO LTO
WAIKAMOI OAM 336	A 9335	01	MAKAWAO	1	20 49	156 14	4320		VAR			C EAST MAUI IRRIGATION CO
WAIKAPU 390	A 9376	03	WAILUKU	3	20 51	156 31	370		6A			C WAILUKU SUGAR CO
WAILUA IKI 348	A 9460	01	HANA	1	20 48	156 09	2630					S EAST MAUI IRRIGATION CO
WAILUKU 386	A 9484	03	WAILUKU	3	20 54	156 30	180	7A	7A			C WAILUKU SUGAR COMPANY

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ISLAND OF MAUI												
WAIOPAI RANCH 256	A	9765	02	HANA	2 20 38	156 12	220		0C			HALEAKALA RANCH CO
ISLAND OF HAWAII												
AHUA UM1 75	A	0040	05	N KONA	5 19 38	155 47	5220		M0			W.H. GREENWELL RANCH
CITY OF REFUGE 27.4		0344	04	S KONA	4 19 25	155 55	15		9A			NAT HISTORICAL PARK
HAJINA 214		0840	01	HAMAKUA	1 20 06	155 28	461		8A			HONOKAA SUGAR CO
HAKALAU 142		0905	02	S HILO	2 19 54	155 08	105		7A			MAUNA KEA SUGAR CO
HALEMAUMAU 52	A	1033	03	KAU	3 19 24	155 17	3648		M0			HAWAII NAT PARK
HALEPOHAKU 111	A	1065	02	HAMAKUA	2 19 46	155 28	9220		3P			MAUNA KEA OBSERVATORY
HAWAII VOLCNS NP HQ 54		1303	02	KAU	2 19 26	155 16	3971	8A	8A		C	HA VOLCANOES NAT PK HQS
HAWI 168	A	1339	01	N KOHALA	1 20 14	155 50	580		6A		C	K L 80ND
HILO COUNTRY CLUB 86.6		1487	02	HAWAII	2 19 41	155 10	1600		7A		C	REX WILLS II
HILO WSO 87 AP	R	1492	02	S HILO	2 19 43	155 04	27	MID	MID		C	J NATL WEATHER SERVICE
HOLUALOA 70	A	1557	04	N KONA	4 19 38	155 55	3220		M0			STATE DIV OF FORESTRY
HOLUALOA BEACH 68	A	1562	04	N KONA	4 19 37	155 59	14		7A			CAPT COOK CATTLE CO
HONANAU 27		1665	04	S KONA	4 19 27	155 53	1089		7A			SHIGETO L TANAKA
HONOHINA 137		1701	02	N HILO	2 19 56	155 09	300		7A			MAUNA KEA SUGAR CO
HONOHU MAUKA 138		1960	02	S HILO	2 19 51	155 09	1100		7A		C	MAUNA KEA SUGAR CO
HONUWALA 71	A	2047	04	N KONA	4 19 40	155 53	6250		M0			STATE DIV OF FORESTRY
HUALALAI 72	A	2151	04	N KONA	4 19 42	155 52	8190		M0			STATE DIV OF FORESTRY
HUEHUE 92.1	A	2156	04	N KONA	4 19 45	155 59	1960		6A			HUEHUE RANCH
KAAALA IKI 12	A	2249	03	KAU	3 19 08	155 34	1340					KAU SUGAR COMPANY, INC
KAAWALO 29	A	2327	04	SOUTH KONA	4 19 30	155 55	1340		8A			CAPT COOK INVESTMENT CO
KAHIWAI MAUKA 3.8		2512	03	KAU	3 19 08	155 46	4120				C	RUSSELL P. SMITH
KAHUA RANCH HQTRS		2600	01	HAWAII	1 20 08	155 48	3240				C	KAHUA RANCH COMPANY
KAINALIU 73.2		2751	04	N KONA	4 19 32	155 56	1500	7A	7A			KONA EXPERIMENT STA
KALAOA 69.22		2887	04	HAWAII	4 19 44	155 59	2000		8A			FLOYD W MC COY
KALAPANA 1 67.8		2894	02	S HILO	2 19 20	155 02	10		VAR			HAWAII VOLCANOES NAT PK
KAMAOKA 2 5	A	3048	03	KAU	3 19 02	155 40	1375		W1			PARKER RCH-KAPAPALA DIV
KAMUELA 192.2		3077	01	S KOHALA	1 20 01	155 40	2670	6A	6A			PARKER RANCH
KAPAPALA RANCH 36	A	3300	03	KAU	3 19 17	155 27	2140		6A			PARKER RCH-KAPAPALA DIV
KAPOHO BEACH 93.11		3368	02	HAWAII	1 19 30	154 49	10	8A	8A			H E MC NICHOLS
KAPOHO LANDING 93.5	A	3369	02	PUNA	2 19 30	154 52	290		VAR			DEPT OF PUBLIC WORKS
KAWAINUI LOWER 193	A	3770	01	HAMAKUA	1 20 05	155 39	1080		W1			HONOKAA SUGAR CO
KEAAU 92		3872	02	PUNA	2 19 38	155 02	285	8A	8A			PUNA SUGAR CO
KEAIIWA CAMP 22.1		3925	03	KAU	3 19 14	155 29	1700				C	KAU SUGAR COMPANY, INC
KEALAKEKUA 2 28.7		3980	04	S KONA	4 19 30	155 55	1450	8A	8A			MRS LILAH MEIER
KEANAKOLU CAMP 124.2		4098	02	HAMAKUA	2 19 55	155 21	5280				C	STATE DIV OF FORESTRY
KIOLAKAA A & F 6	A	4625	03	KAU	3 19 04	155 38	1925		M0			STATE DIV OF FORESTRY
KIIPA 89.2	A	4632	02	S HILO	2 19 44	155 09	1490		W1			MAUNA KEA SUGAR CO.
KOHALA MISSION 175.1		4680	01	N KOHALA	1 20 14	155 48	537	7A	7A			K. LYMAN 80ND
KOIAWE LOWER 196	A	4685	01	HAMAKUA	1 20 05	155 38	720		W1			HONOKAA SUGAR CO
KONA (KAILUA) 68.3	A	4764	04	N KONA	4 19 39	156 00	30	8A	8A		C	STANDARD OIL CO OF CAL
KONA VILLAGE 93.8		4765	04	N KONA	4 19 50	155 59	20		8A			KONA VILLAGE RESORT HTL
KUKAIKU 222		4815	01	HAMAKUA	1 20 02	155 21	840		6A			LAUPAHOEHOE SUGAR CO
KUKUIHALE HIC 199		4928	01	HAMAKUA	1 20 07	155 35	980		6A			HONOKAA SUGAR CO
KUKUIHALE MILL 206		4938	01	HAMAKUA	1 20 08	155 34	300		6A			HONOKAA SUGAR CO
KULANI CAMP 79		5011	02	S HILO	2 19 33	155 18	5170	8A	8A			ST DEPT OF SOCIAL SER
KULANI MAUKA 76	A	5018	05	N HILO	5 19 35	155 27	8300		VAR			MAUNA LOA OBS.
KULANI SCHOOL SITE 78	A	5021	02	S HILO	2 19 35	155 20	5735		W1			ST DEPT OF SOCIAL SER
LALAMILO FLD OFF 191.1		5260	01	S KOHALA	1 20 01	155 41	2615				C	STATE DEPT OF L&N RES
LANIHAU 68.2		5330	04	N KONA	4 19 40	155 58	1530		7A			KONA EXPERIMENT STATION
LAVA TREE PARK 66.1		5460	02	PUNA	2 19 29	154 54	650				C	STATE DIV OF PARKS
MAKAHALAU 103		5761	02	HAWAII	1 19 59	155 33	3820		6A			PARKER RANCH
MANUKA 2	A	6134	03	KAU	3 19 07	155 50	1760		W1			STATE DIVISION OF PARKS
MAUNA KEA OBS 111.2		6183	02	HAWAII	2 19 49	155 28	3770		7P			MAUNA KEA OBSERVATORY
MAUNA LOA SLOPE OBS		6198	05	HAMAKUA	5 19 32	155 35	1150	9A	9A			MAUNA LOA OBSERVATORY
MIDDLE HOLUALOA 68.1	A	6268	04	N KONA	4 19 37	155 58	500		7A			CAPT COOK CATTLE CO
MIDDLE PEN 147.1	A	6270	01	N KOHALA	1 20 06	155 50	1380		VAR			KAHUA RANCH
MORULA 18	A	6407	03	KAU	3 19 11	155 30	600					PARKER RCH-KAPAPALA DIV
MOUNTAIN VIEW 91		6552	02	PUNA	2 19 33	155 07	1530	6A	6A			PUNA SUGAR CO
NAALEHU 14	A	6588	03	KAU	3 19 04	155 35	800	8A	8A			KAU SUGAR COMPANY
NAPOOPOO 28	A	6697	04	S KONA	4 19 28	155 55	395		7A			KONA EXPERIMENT STA
DOKALA 223		7131	02	N HILO	2 20 01	155 17	430	7A	7A			LAUPAHOEHOE SUGAR CO
OPIHIHALE 2 24.1		7166	04	S KONA	4 19 16	155 53	1270	7A	7A			MRS LORNA TRUMAN
ORCHID LAND EST 91.5	A	7185	02	PUNA	2 19 34	155 00	445		VAR			BOARD OF WATER SUPPLY
PAUHAU 217		7204	01	HAMAKUA	1 20 05	155 26	415		8A		C	HONOKAA SUGAR COMPANY

SEE REFERENCE NOTES FOLLOWING STATION INDEX

## STATION INDEX

HAWAII AND PACIFIC  
MARCH 1977

STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES				OBSERVER
								TEMP.	PRECIP.	EVAP.	SPECIAL (SEE NOTES)	
ISLAND OF HAWAII												
PAAUILO 221		7312	01 HAMAKUA	1	20 03	155 22	800		7A			LAUPAHOEHOE SUGAR CO
PAHALA 21	A	7421	03 KAU	3	19 12	155 29	870	8A	6A			KAU SUGAR COMPANY, INC
PAHOA 65		7457	02 PUNA	2	19 30	154 57	670		6A			PUAN SUGAR COMPANY
PAKAO 37	A	7643	03 KAU	3	19 22	155 28	5000		MO			PARKER RCH-KAPAPALA DIV
PAPAIKOU 144.1		7711	02 S HILO	2	19 47	155 06	260		7A			MAUNA KEA SUGAR CO
PAPAIKOU MAUKA 140.1		7721	02 S HILO	2	19 47	155 08	1270		7A			MAUNA KEA SUGAR CO
PIIHONUA 89	A	8051	02 S HILO	2	19 44	155 10	1730		MO			STATE DIV OF FORESTRY
POHAKULOA 107	A	8063	02 HAMAKUA	2	19 45	155 32	6511		WI		C	STATE DIVISION OF PARKS
PUUKOHOLA HEIAU 98.1		8422	05 HAWAII	5	20 02	155 50	140	8A	8A			SUPT PUU HEIAU-NHS
PUU LEHUA 73	A	8460	04 N KONA	4	19 34	155 49	4880		MO			W.H. GREENWELL RANCH
PUU WAAWAA 94.1	A	8555	05 N KONA	5	19 47	155 51	2520		7A		C	PUU WAAWAA RANCH CO
SADOLE ROAD 1 84	A	8590	02 S HILO	2	19 42	155 12	2340		WM			BOARD OF WTR SUPPLY
SOUTH KONA 2.31		8650	03 HAWAII	3	19 06	155 45	2650	8A	8A			MRS CAROLYN CARLSON
SOUTH POINT CORRAL 3	A	8675	03 KAU	3	18 57	155 41	500		WI			PARKER RCH-KAPAPALA DIV
UPOLU POINT USCG 159.2		8830	01 N KOHALA	1	20 15	155 53	61	8A	8A			U S COAST GUARD
WAIAKEA SCO 88.2		9025	02 S HILO	2	19 40	155 08	1050		7A			SHINICHI KANESHIRO
WAIKALOA-8015 CAS 95.8		9142	04 HAWAII	5	19 56	155 48	900		8A			8015 CASCADES WA CONST

SEE REFERENCE NOTES FOLLOWING STATION INDEX



## STATION INDEX

HAWAII AND PACIFIC  
MARCH 1977

STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES				OBSERVER
								TEMP.	PRECIP.	EVAP.	SPECIAL (SEE NOTES)	
PACIFIC												
EAST OF 180TH MERIDIAN												
CANTON ISLAND	4101	02	PHOENIX IS		2 46N	171 43W	8	9A	9A			ITT/FEDERAL ELEC CORP
FAGA ALU RESERVOIR	4139	03	AMER SAMOA		14 18S	170 42W	820		8A			PUBLIC WORKS
FALEASAO VILLAGE	4248	03	TA'U'MAN		14 14S	169 31W	16		8A			SOLOMULI MALU'IA
JOHNSTON WSO AP	R 4320	01	LINE ISLANDS		16 44N	169 31W	7	MIO	MIO	7A	J	NATL WEATHER SERVICE
LEONE	4397	03	TUTUILA		14 21S	170 47W	20	6P	6P			ST THERESA SCHOOL
FRENCH FRIGATE SHOALS	4401	07			23 52N	166 17W	6	8P	8A			U S COAST GUARD
MIDWAY SAND ISLAND	4490	07			28 13N	177 21W	10	MIO	MIO			U S NAVY
PAGO PAGO WSO AP	R 4690	03	AMER SAMOA		14 20S	170 43W	12	MIO	MIO		J	NATL WEATHER SERVICE
SWAINS ISLAND	4822	01	AMER SAMOA		11 03S	171 05W	6	MIO	MIO			CLOSED 12/31/76
WESTERN PACIFIC ISL. NORTH OF 12 N												
<ANDERSEN AFB GUAM	4025	03	MARIANNA IS		13 35N	144 55E	624	MIO	MIO			AIR WEATHER SERVICE
<CLARK AFB LUZON	4100	06	PHILIPPINE I		15 11N	120 33E	475	MIO	MIO			U S AIR FORCE
*GUAM NAS	4226	03	MARIANNA IS		13 29N	144 48E	254	MIO	MIO			U S NAVY
GUAM WSMO	R 4229	03	MARIANNA IS		13 33N	144 50E	361	10A	10A	10A	J	NATL WEATHER SERVICE
MANGILAO	4468	03	GUAM		13 27N	144 49E	60		7A			GUAM AGRICULTURAL STA
ROTA	4800	03	MARIANNA IS		14 08N	145 09E	47		8A			DIST ADMINISTRATOR
SAIPAN LORAN	4860	03	MARIANNA IS		15 08N	145 42E	9	10A	10A			U S C G LORAN STATION
WAKE WSO AP	R 4901	01			19 17N	166 39E	11	MIO	MIO		J	NATL WEATHER SERVICE
CAROLINE AND MARSHALL ISLANDS												
ANGUAR	4030	02	CAROLINE IS		6 55N	134 09E	15		8A			USCG LORAN STATION
ENIWETAK	4165	01	MARSHALL IS.		11 21N	162 21E	10	MIO	MIO			U S COAST GUARD
FALALOP I. ULITHI	4185	02	CAROLINE IS		10 02N	139 48E	6	10P	10P			PRINCIPAL-ULITHI H-SCH
KAPINGAMARANGI ATOLL	4325	01	PONAPE		1 05N	154 48E	10	MIO	MIO			ERSIN HAQUET
KOROR WSO	R 4351	02	CAROLINE IS		7 20N	134 29E	94	MIO	MIO		J	NATL WEATHER SERVICE
KWAJALEIN MISSILE RGN	R 4375	01	MARSHALL IS		8 44N	167 44E	7	12M	12M		J	KMR WEATHER SERVICE
LELE I. KUSAIE	4395	02	CAROLINE IS		5 20N	163 02E	7	MIO	MIO			JULIAN E ROBERT
MAJURO WSO AP	R 4460	02	MARSHALL IS		7 05N	171 23E	10	MIO	MIO		J	NATL WEATHER SERVICE
METALANIM	4482	02	PONAPE		6 51N	158 19E	30	8A	8A			REV E. A. SOUCIE
MOKIL ATOLL	4490	02	PONAPE DIST.		6 41N	159 47E	27		5P			ESHAM BEN
NGASANG, BABELTHUAP	4580	01	PALAU ISLAND		7 38N	134 39E	10		8A			BETHANIA SEMINARY
PONAPE WSO	R 4751	02	CAROLINE IS		6 58N	158 13E	123	MIO	MIO		J	NATL WEATHER SERVICE
SATAWAN ATOLL	4814	02	CAROLINE IS		5 20N	153 44E	9	MIO	MIO			ANTER EKO
TRUK, MOEN I. WSO AP	R 4851	02	CAROLINE IS		7 28N	151 51E	5	MIO	MIO		J	NATL WEATHER SERVICE
WOLEAI ATOLL	4911	01	CAROLINE IS		7 23N	143 55E	7	MIO	MIO			HASUGULIMAR/HALEYEMAI
YAP WSO AP	R 4951	02	CAROLINE IS		9 29N	138 05E	44	MIO	MIO		J	NATL WEATHER SERVICE
CLOSED STATIONS EAST OF 180TH MERIDIAN												
SWAINS ISLAND	4822	01	AMER SAMOA		11 03S	171 05W	6	MIO	MIO			CLOSED 12/31/76

SEE REFERENCE NOTES FOLLOWING STATION INDEX

Additional information regarding the climates of Hawaii and the Pacific Ocean Area may be obtained by writing to the National Climatic Center, Federal Building, Asheville, N.C. 28801, or to any National Weather Service Office near you. Additional precipitation data for Hawaii are contained in "HOURLY PRECIPITATION DATA HAWAII."

**DIMENSIONAL UNITS:** Unless otherwise indicated, dimensional units used in this bulletin are: Temperature in °F., precipitation and evaporation in inches, and wind movement in miles. In "Supplemental Data" table directions entered in figures are tens of degrees. Resultant wind is the vector sum of wind directions and speeds divided by the number of observations.

**OBSERVATION TIME:** Data in the "Monthly Extremes," "Daily Precipitation" table, "Daily Temperature" table, and "Evaporation and Wind" table are for the 24 hours ending at time of observation unless indicated otherwise by reference letters in the Station Index. The Station Index shows observation time in local standard time.

**EVAPORATION** is measured in the standard Weather Service-type pan of 4-foot diameter unless otherwise noted below in the Evaporation and Wind table. Max and Min values in the Evaporation and Wind table are extremes of temperature of water in pan as recorded during 24 hours ending at time of observation. Wind is the total wind movement in miles over the evaporation pan as determined by a continuous anemometer recorder located 6-8 inches above the pan.

**NORMALS** for all stations are climatological standard normals based on the period 1941-1970.

**STATION NAMES:** Hawaii state key numbers are included following station names in the several tables.

**LATE REPORTS AND CORRECTIONS** will be carried only in the June and December issues of this bulletin.

**INTERPOLATED VALUES** for monthly precipitation totals may be found in the annual issue of this publication.

**IN THE DATA TABLES THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING:**

- No record in the "Supplemental Data" table, "Daily Precipitation" table, "Evaporation and Wind" table, and the Station Index.
- No record in the "Monthly Summarized Data" table and the "Daily Temperature" table is indicated by no entry.
- + And also on an earlier date or dates.
- ++ Highest observed one minute windspeed. This station is not equipped with an instrument to measure fastest mile data.
- \* Amount included in following measurement, time distribution unknown.
- < Maximum and minimum temperatures are the highest and lowest hourly readings for each day.
- ‡ Extreme occurred at station with incomplete data which may have been exceeded.
- A The letter "A" shown following station name in "Monthly Summarized Data" table, "Daily Precipitation" table, and "Station Index," indicates amount carried in the "Total" column is for the period from last measurement of a preceding month through the last measurement of the current month. See "Daily Precipitation" table of this and previous bulletins for dates of measurement. Where gages are read only once monthly, measurements made on the first of a month are credited to the last day of the preceding month.
- B Adjusted to a full month.
- M One or more days of record missing; if average value is entered, less than 10 days record is missing. See "Daily Temperature" table for detailed daily record.
- R Amounts from recording gage.
- T Trace, an amount too small to measure.
- V Includes total for previous month.

**IN THE STATION INDEX THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING:**

- AR Observation made after rain.
- C In Special Column of Station Index indicates Recording Rain Gage Station. Hourly Precipitation values are processed for special purposes, and are published later in the "Hourly Precipitation Data" bulletin. If daily amounts are published in "Monthly Summarized Data" bulletin they are from a separate non-recording gage, except where indicated by reference 'R'. Such amounts may differ from amounts published from the recording gage in the "Hourly Precipitation Data" bulletin.
- J "Supplemental Data" table.
- MO Gage read once monthly; usually on the last day.
- OC Gage readings at periods varying from a few weeks to several months.
- S Storage precipitation station. Precipitation measurements, made at irregular intervals, are published in the annual issue of this publication, beginning with the 1977 data. Prior data are found in the "Storage-Gage Precipitation Data" Bulletin, which was discontinued with the 1976 issue.
- SS Observation time is near sunset.
- VAR Observation time is variable.
- W1 Gage read weekly or irregularly only.
- WM Gage read weekly and last day of month.
- # Thermometers are generally exposed in a shelter located a few feet above sod-covered ground; however, this reference indicates that the thermometers are exposed in a shelter located on the roof of a building.
- + DRAINAGE CODE: KAUAI: 1-NORTHERN 2-SOUTHEASTERN 3-SOUTHWESTERN OAHU: 1-WINDWARD KOOLAU 2-HONOLULU 3-SOUTH CENTRAL 4-WESTERN 5-NORTH CENTRAL MOLOKAI: 1-(NO INTRA-ISLAND DIVISIONS) LANAI: 1-(NO INTRA-ISLAND DIVISIONS) MAUI: 1-NORTHEASTERN 2-SOUTHERN 3-CENTRAL 4-WESTERN HAWAII: 1-NORTHERN 2-EASTERN 3-SOUTHERN 4-WESTERN 5-CENTRAL

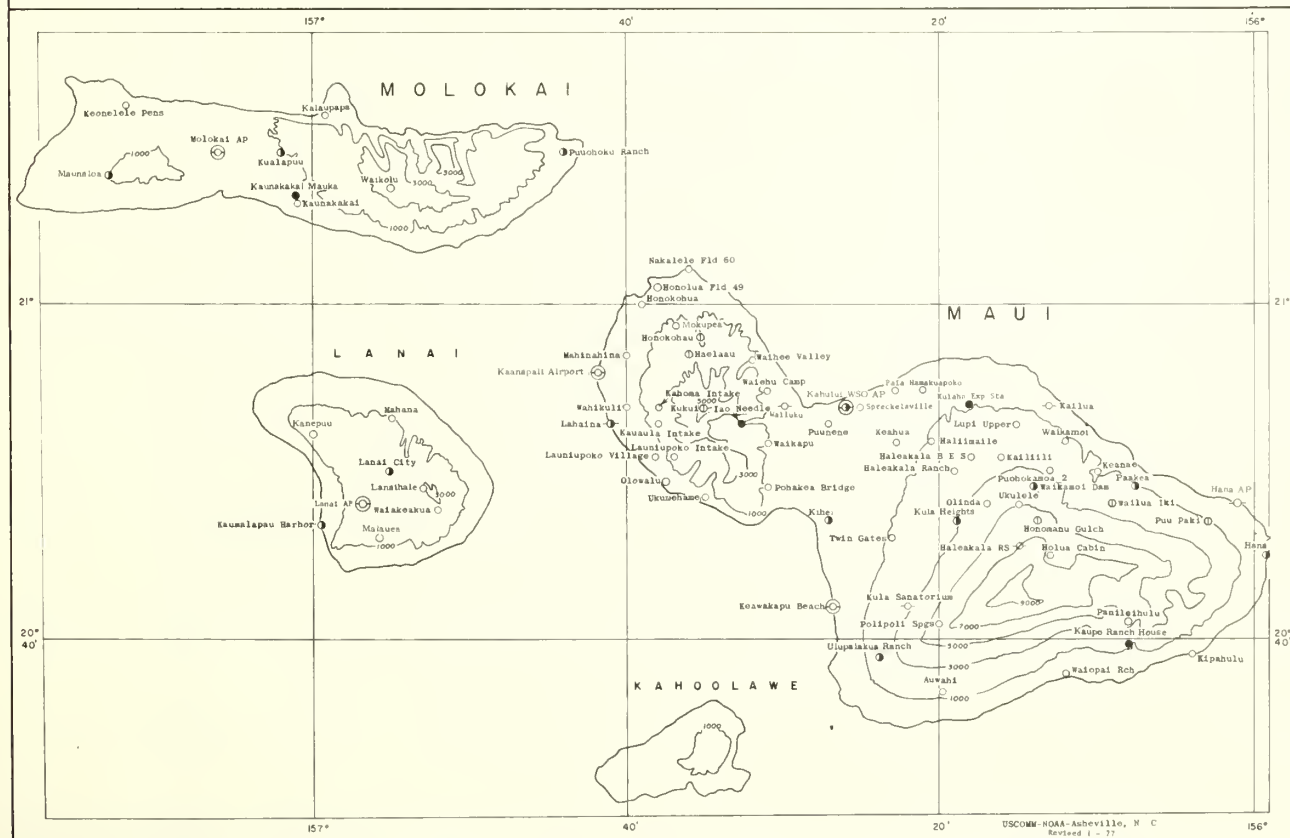
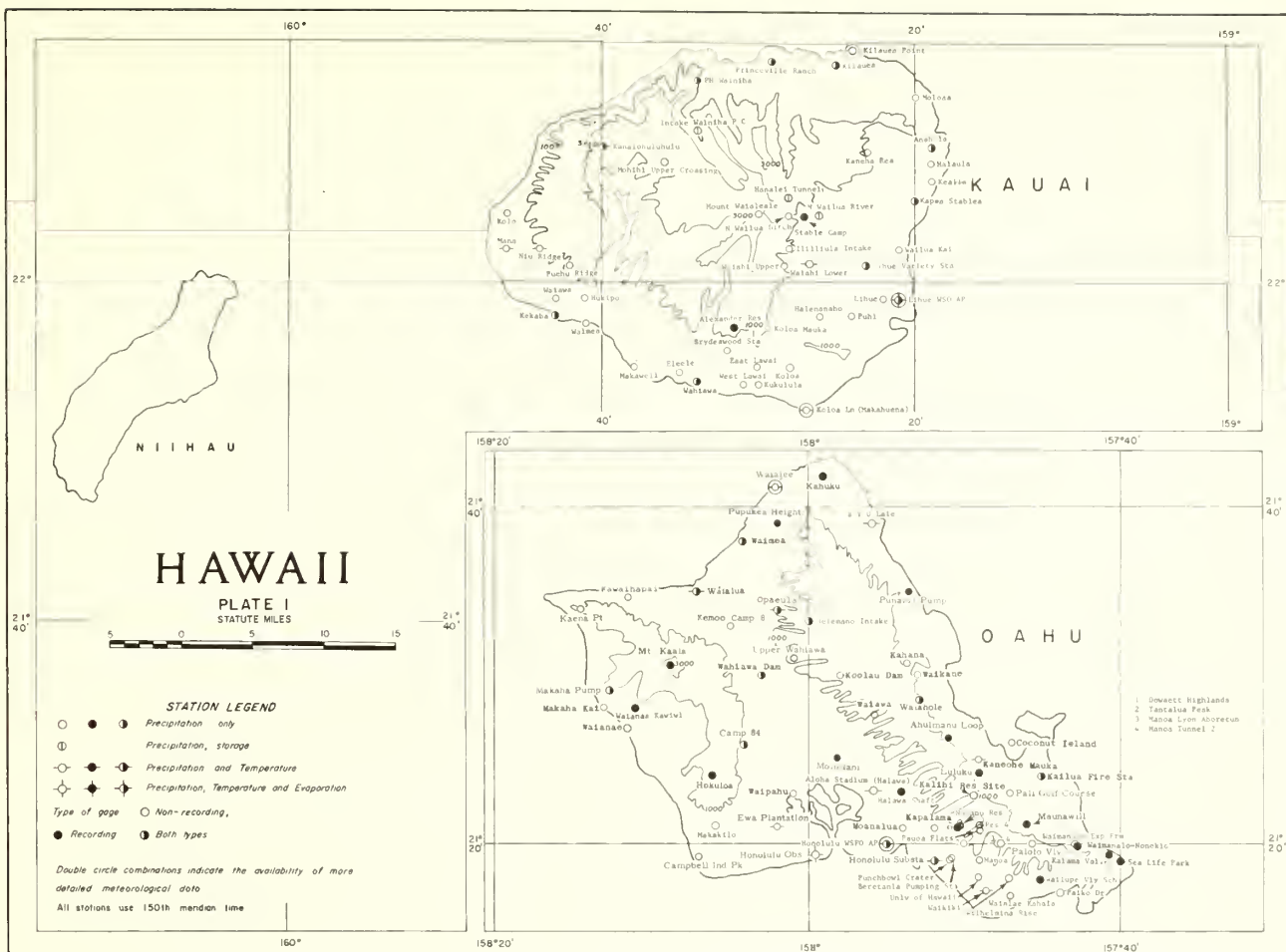
Stations appearing in the tables with no data were either missing or received too late to be included in this issue.

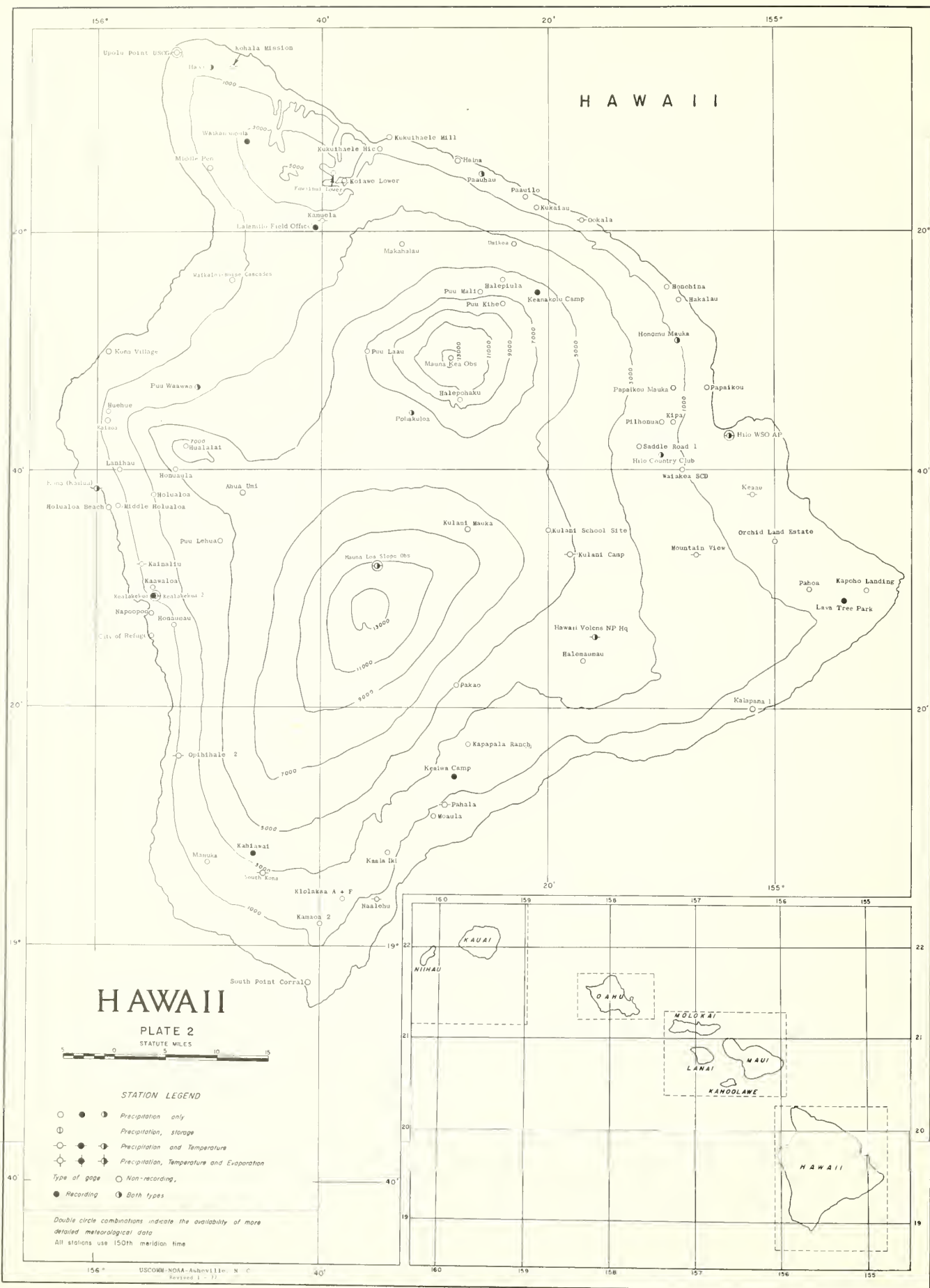
The Pacific includes stations in the Trust Territory of the Pacific Islands, Territory of Guam, American Samoa, and other scattered islands and atolls.

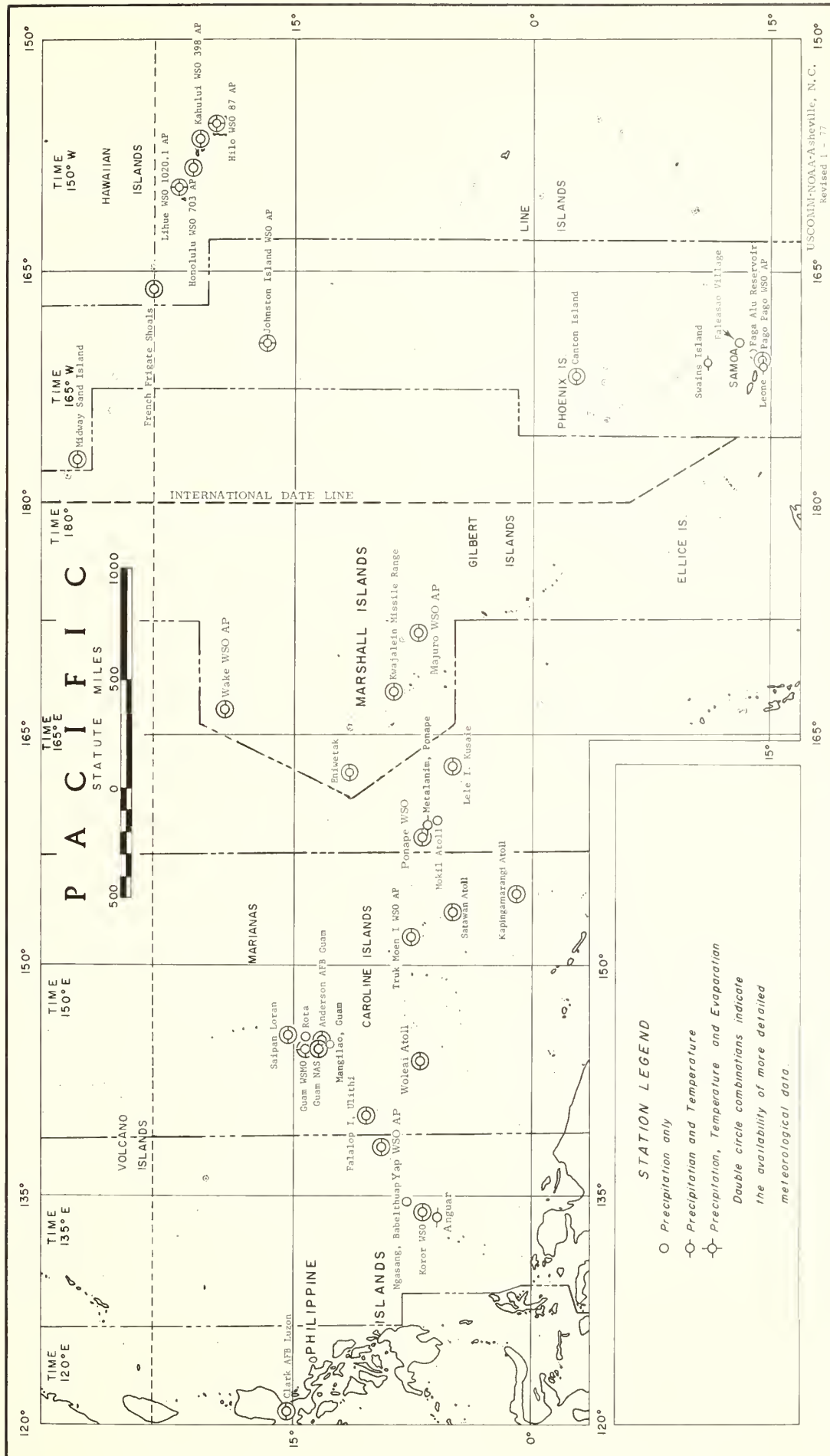
General weather conditions in the U.S. for each month are described in the CLIMATOLOGICAL DATA NATIONAL SUMMARY and STORM DATA.

Information concerning the history of changes in locations, elevations, exposure, etc., of substations through 1957 may be found in the publication "Substation History" for this State, price 40 cents. Similar information for regular National Weather Service Offices may be found in the latest annual issue of Local Climatological Data, price 20 cents. These publications may be obtained from the National Climatic Center at the address shown above.

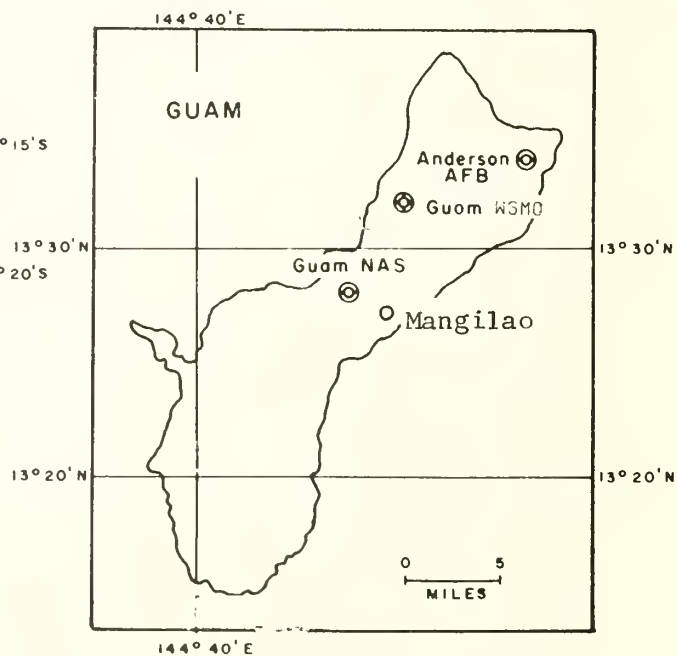
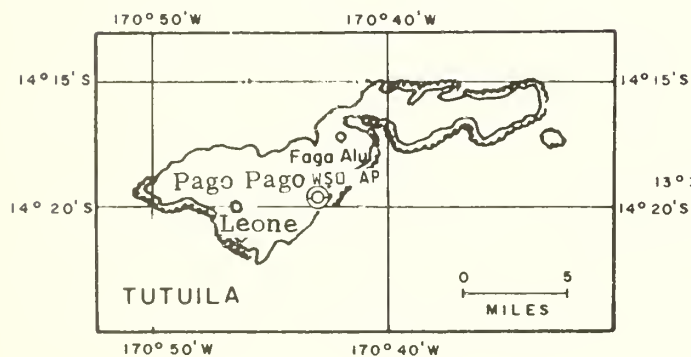
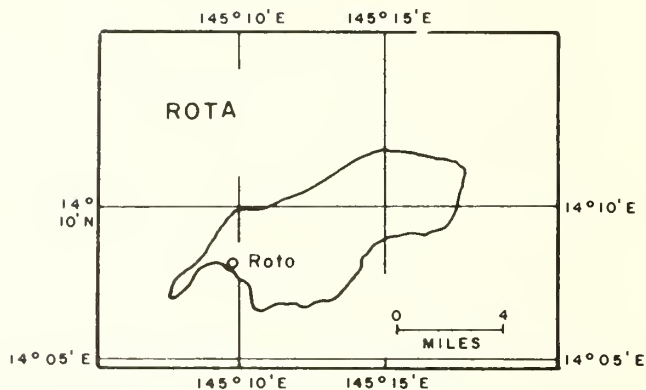
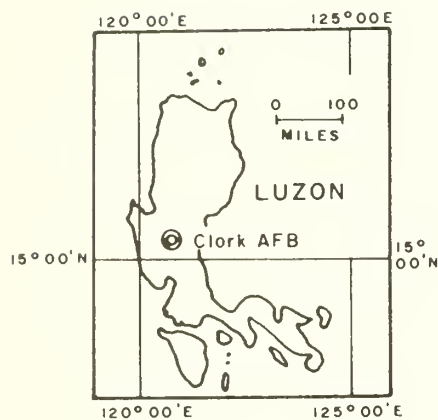
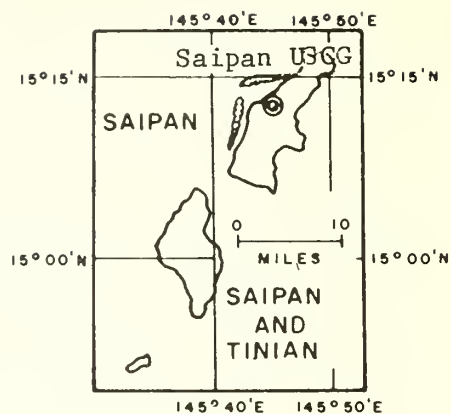
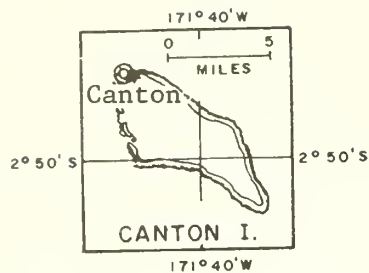
Subscription Price: \$5.10 a year for each section including annual summary; \$5.55 additional for foreign mailing. 40¢ single copy; 30¢ annual summary. Make checks payable to Department of Commerce, NOAA; send payments and orders to: National Climatic Center, Federal Building, Asheville, N. C. 28801. Attn: Publications.



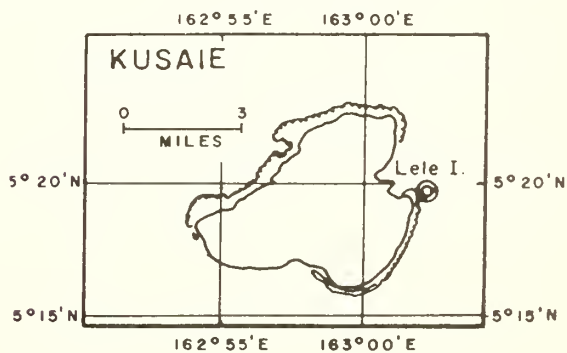
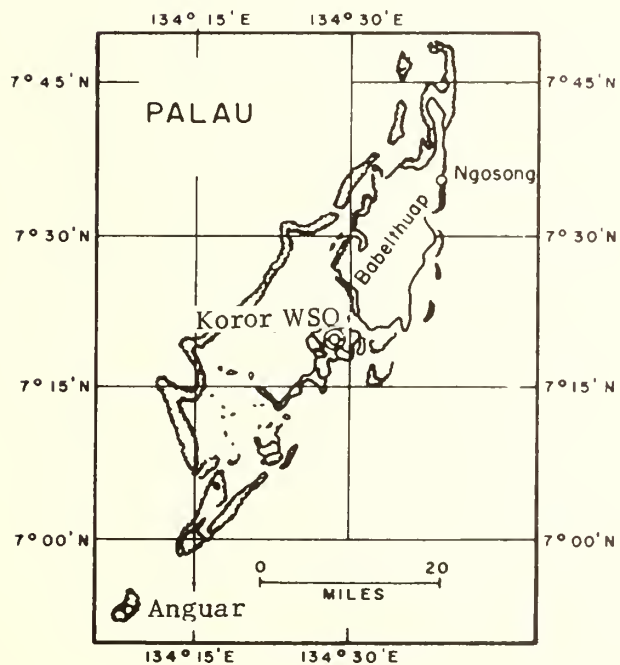
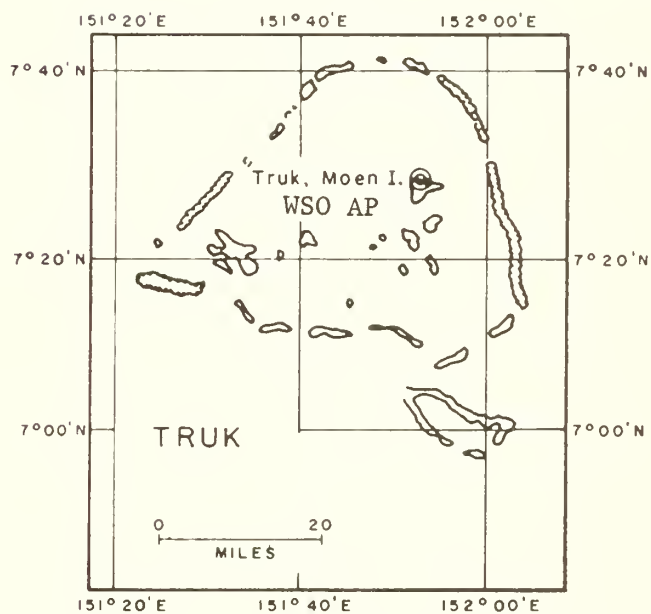
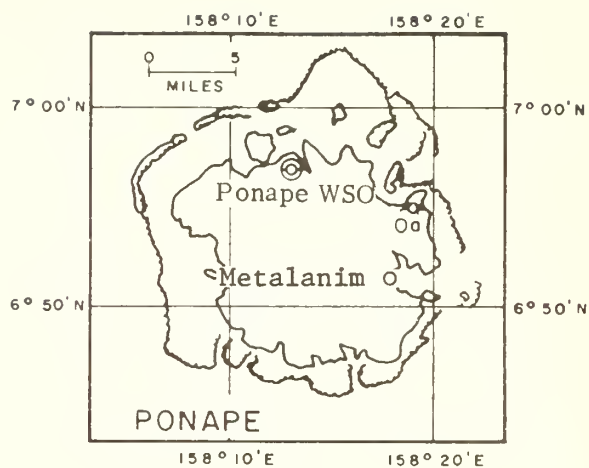
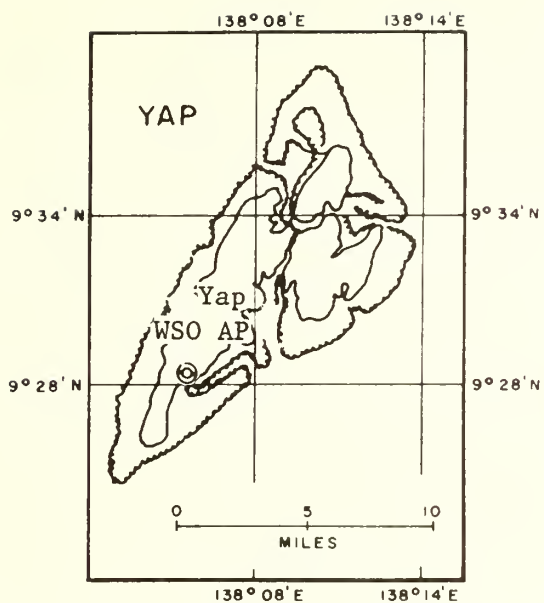




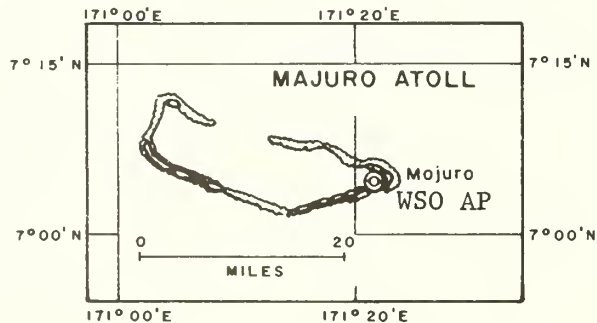
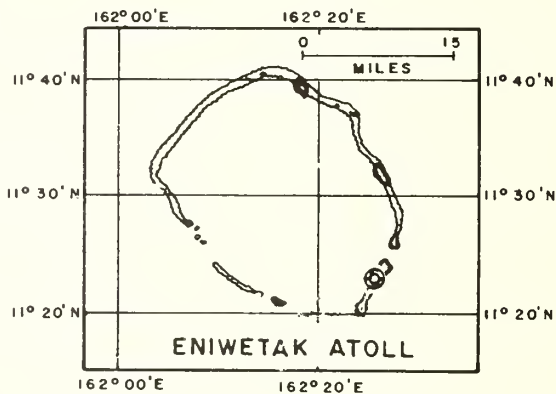
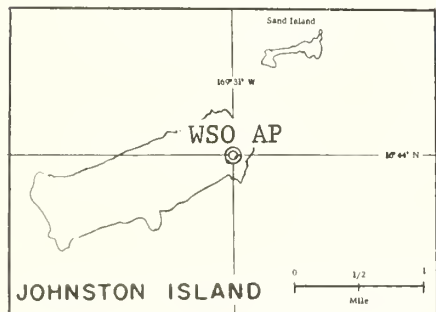
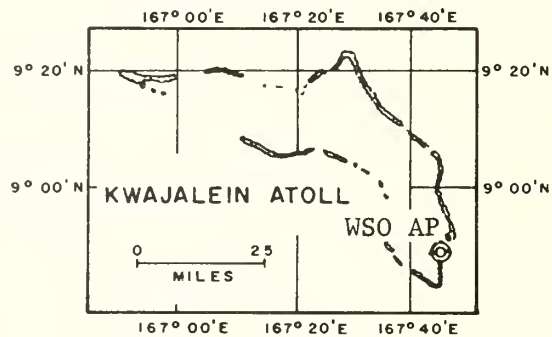
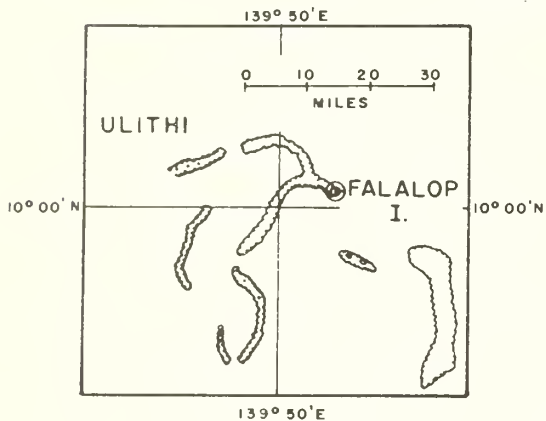
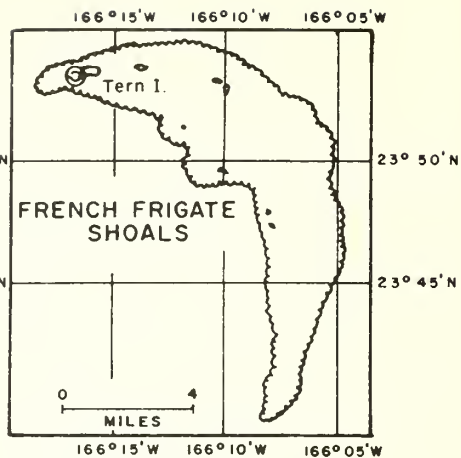
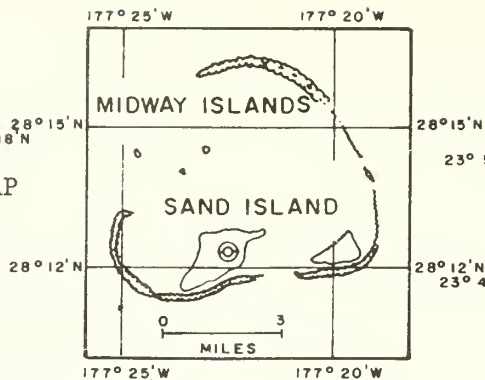
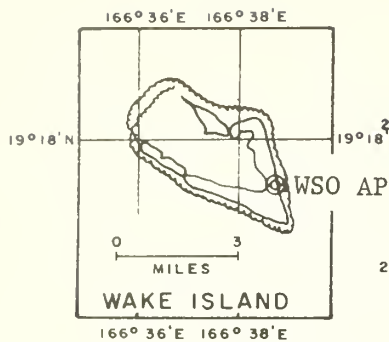




Reef



— Reef





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**THIRD CLASS**



Climatological Data

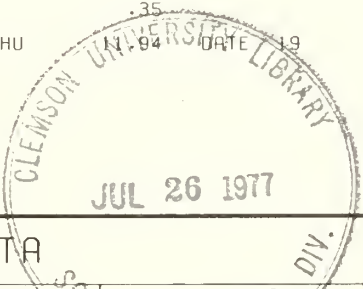


HAWAII AND PACIFIC

TEMPERATURE AND PRECIPITATION EXTREMES

HAWAIIAN STATIONS ONLY

HIGHEST TEMPERATURE: PUUKOHOLA HEIAU 98.1 HAWAII 90 DATE 09  
LOWEST TEMPERATURE: MAUNA LOA SLOPE 085 HAWAII 30 DATE 17+  
GREATEST TOTAL PRECIPITATION: HILO COUNTRY CLUB 86.6 HAWAII 39.05  
LEAST TOTAL PRECIPITATION: 2 STATIONS .35  
GREATEST 1 DAY PRECIPITATION: MANOA TUNNEL 2 716 OAHU 1.94 DATE 19



SUPPLEMENTAL DATA

	WIND (SPEED - M.P.H.)						RELATIVE HUMIDITY AVERAGES- PERCENT				NUMBER OF DAYS WITH PRECIPITATION										PERCENT OF POSSIBLE SUNSHINE	AVERAGE (TENTHS) SKY COVER SUNRISE TO SUNSET
	RESULTANT DIRECTION	RESULTANT SPEED	AVERAGE	FASTEST MILE	DIRECTION OF FASTEST MILE	DATE OF FASTEST MILE	STANDARD OF TIME				TRACE	.01-.09	.10-.49	.50-.99	1.00-1.99	2.00 AND OVER	TOTAL					
							GREENWICH CIVIL															
							12	18	00	06												
GUAM WSMO	-	-	-	26	E 14	-	72	71	86	0	12	9	0	0	0	21	77	7.3				
HILO WSO 87 AP	13	2.3	7.3	23	E 17	88	79	69	85	3	8	11	4	2	1	29	29	8.0				
HONOLULU WSO 703 AP	6	11.2	13.4	33	E 12	75	69	55	69	11	4	3	1	0	0	19	66	5.3				
JOHNSTON WSO AP	7	17.8	18.7	40	NE 03	81	81	74	80	7	12	5	1	0	0	25	81	6.4				
KAHULUI WSO 398 AP	5	11.7	13.5	35	NE 12	79	82	63	71	5	10	4	1	1	0	21	59	5.4				
KOROR WSO	6	8.8	9.6	22	SE 05	84	-	77	71	0	7	7	1	1	0	16	57	8.1				
KWAJALEIN MISSILE RGN	7	14.8	15.3	25++	9 30+	80	82	73	77	7	5	4	3	2	0	21	-	9.0				
LIHUE WSO 1020.1 AP	6	11.2	13.8	25	E 15+	85	80	69	81	3	14	6	0	0	1	24	79	6.9				
MAJURO WSO AP	7	12.9	13.3	27	E 10	85	85	79	81	5	9	7	1	2	2	26	61	9.5				
PAGO PAGO WSO AP	14	1.4	6.7	32	S 09	90	92	74	84	5	5	3	2	3	0	18	55	6.8				
PONAPE WSO	-	-	-	18	NE 30	84	-	76	78	4	10	7	2	2	2	27	28	8.7				
TRUK MOEN I. WSO AP	5	10.8	11.3	25	NE 21	84	-	77	77	5	6	6	2	3	1	23	42	9.7				
WAKE WSO AP	6	18.4	18.8	32	NE 02	89	91	73	79	8	9	3	1	0	0	21	81	4.3				
YAP WSO AP	8	10.0	10.4	20	NE 15	81	-	70	67	5	9	3	0	0	0	17	88	6.8				

## MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

HAWAII AND PACIFIC  
APRIL 1977

STATION		TEMPERATURE											PRECIPITATION												
		AVERAGE MAXIMUM	AVERAGE MINIMUM	AVERAGE	DEPARTURE FROM NORMAL	HIGHEST	DATE	LOWEST	DATE	DEGREE DAYS	NO. OF DAYS				TOTAL	DEPARTURE FROM NORMAL	GREATEST DAY	DATE	SNOW. SLEET		NO. OF DAYS				
											MAX.		MIN.						TOTAL	MAX. DEPTH ON GROUND	DATE	+10 OR MORE	+50 OR MORE	1.00 OR MORE	
											32° OR ABOVE	32° OR BELOW	32° OR BELOW	32° OR BELOW											
HAWAII																									
ISLAND OF KAUAI																									
ANAHOLA 1114	A	66.8	50.8	58.8		70	28+	42	23		0	0	0	0	4.59		1.55	20		0			9	1	0
KANALOHULU 1075															3.26		.68	20		0					
KAPAA STABLES 1104	A														5.29		1.40	20		0					
KILAUEA POINT 1133		79.9	68.0	74.0		88	1	65	19+		0	0	0	0	4.84		2.74	20		0			8	2	1
KOLOA 936															4.12		2.10	26		0			1	1	
LIHUE WSO 1020.1 AP	//R	79.5	68.2	73.9	.6	82	1	62	18+		0	0	0	0	4.11	.86	2.00	19		0			7	1	1
MANA 1026		83.0	63.1	73.1	.2	88	18	59	7+		0	0	0	0	2.01	.39	.82	27		0			4	2	0
N. WAILUA DITCH 1051	A														16.28		2.95	20		0					
PM WAINIHA 1115															15.85	3.27				0					
PUEHU RIDGE 1040															3.43	.84	2.00	25		0			6	2	1
WAIHANA 930	A														.85	- 1.83	.20	14		0			0	0	0
WAIHAI LOWER 1054		70.9	61.2	66.1		77	2	55	22+		0	0	0	0	10.33	1.01	2.06	26		0			20	6	2
WAINA 947															.36	- 1.33	.19	29		0			2	0	0
ISLAND				69.2											5.79					0					
ISLAND OF OAHU																									
ALOHA STADIUM-HALAWA	M	79.4	68.1M	73.8M		88	4	65	27+		0	0	0	0	3.84					0					
B Y U LAIE 903.1						82	30+	64	26+		0	0	0	0	6.79		1.80	26		0			11	3	3
HONOLULU OBSERV 702.2															1.24		.40	1		0			5	0	0
HONOLULU WSO 703 AP	R	82.8	69.8	76.3	1.5	86	28+	66	19+		0	0	0	0	1.81	.45	.62	19		0			4	1	0
KANEHE MAUKA 781		76.6	67.7	72.2	.4	80	29+	65	24+		0	0	0	0	12.57	6.31	3.90	3		0			16	7	3
KOOLAUPA DAM 833	A														17.63		8.60	19		0			18	6	4
MANDA LYON ARBORETUM		76.9	63.9	70.4		82	3	59	28+		0	0	0	0	18.68		7.78	20		0			24	9	2
NUUANU RES 4 783															14.88		5.22	19		0			19	8	4
OPAEULA 870	A	78.0	62.5	70.3	2.2	85	5	60	27+		0	0	0	0	4.72		2.80	20		0					1
PALOLO VALLEY 718	R														22.00	10.19	7.96	19		0			17	9	6
WAIHANA DAM 863	A														4.96		1.03	26		0					1
WAIHOLE 837	A														14.35					0					
WAIKALEE 896.3		77.9M	67.2M	72.6M		82	3	62	1		0	0	0	0	9.24		2.88	20		0			2	1	
WAILUALA 847	A	79.7	63.0	71.4	.1	85	2	57	22		0	0	0	0	1.43	.89	.46	21		0			0	0	0
WAIKIKI 717.2		82.4	67.6	75.0		86	30+	60	6		0	0	0	0	1.45		.40	20		0			5	0	0
WAIMANALO EXP FARM		78.5	67.0	72.8		84	18	63	26+		0	0	0	0	6.77		1.42	26		0			9	6	3
WAIPIAHU 750	A														1.60		.45	21		0			0	0	0
ISLAND				72.8											8.23					0					
ISLAND OF MOLOKAI																									
KUALAPUU 534	A														8.38					0					
MAUNALO A 511	A														7.45		2.01	19		0			9	6	3
MOLOKAI AP 524		80.0	65.1M	72.6M		84	2	60	11+		0	0	0	0			1.38	4		0					
ISLAND				72.6											7.92					0					
ISLAND OF LANAI																									
LANAI CITY 672	A														11.51	8.22	4.70	4		0			11	6	3
ISLAND															11.51					0					
ISLAND OF MAUI																									
HALEAKALA 8 E 5 434	A	60.5	41.6	51.1	- 1.1	69	10	35	18+		0	0	0	0	15.06		3.33	5		0			16	8	6
HALEAKALA RS 338															7.32		2.00	5		0			9	5	2
HANA AIRPORT 355		80.2M	67.1M	73.7M		87	19	61	16+		0	0	0	0	12.04		2.70	20		0					
HONOKOHUA 493															15.30					0					
KAAHAU 453.1	A	79.6	65.3	72.5		83	29	60	23		0	0	0	0	9.40		4.40	3		0			7	3	3
KAHULUI WSO 398 AP	R	81.0	67.8	74.4	.6	86	19	59	23		0	0	0	0	3.83	2.58	1.51	3		0			6	2	1
KAILUA 446		M	M	M		79	4+	61	25		0	0	0	0	19.24	7.53	3.72	6		0					
KEANAE 346	A														40.23					0					
KIPAHUU 258															6.86		2.94	19		0			17	1	1
KULA SANATORIUM 267		71.5	56.1	63.8	1.7	79	3+	52	28		0	0	0	0	4.82	1.84	1.20	5		0			8	5	1
LAHAINA 361		84.1	65.6M	74.9M	1.6	87	4	62	6		0	0	0	0	5.54	4.61	3.28	2		0			3	2	2
PAIA 406															4.52	1.80	1.03	5		0					
WAILUKU 386	A	M	M	M		85	4	65	26+		0	0	0	0	7.72	5.31	2.40	4		0			10	4	1
ISLAND				68.4											11.68					0					
ISLAND OF HAWAII																									
HAWAII VOLCNS NP HD 54	R	65.6	52.8	59.2	.2	70	27+	48	26+		0	0	0	0	14.10	4.00	1.31	30		0			25	10	7
HILO WSO 87 AP	A	81.9	66.4	74.2	2.0	88	2	63	30+		0	0	0	0	10.90	- 1.98	2.36	29		0			18	7	3
HUEHUE 92.1															5.90					0					
KAINALU 73.2		75.5	59.9	67.7		79	2	56	23		0	0	0	0	6.06	.17	1.21	26		0					1
KAPOHO BEACH 93.11															8.45		1.97	30		0			4	2	
KEAAU 92		78.5	64.0	71.3		84	3	61	26+		0	0	0	0	13.80		3.19	30		0			21	7	5

SEE REFERENCE NOTES FOLLOWING STATION INDEX

## MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

HAWAII AND PACIFIC  
APRIL 1977

STATION		TEMPERATURE										PRECIPITATION																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
		AVERAGE MAXIMUM	AVERAGE MINIMUM	AVERAGE	DEPARTURE FROM NORMAL	HIGHEST	DATE	LOWEST	DATE	DEGREE DAYS	NO. OF DAYS						TOTAL	DEPARTURE FROM NORMAL	GREATEST DAY	DATE	SNOW, SLEET			NO. OF DAYS																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
											MAX.		MIN.								TOTAL	MAX. DEPTH ON GROUND	DATE	+1.0 OR MORE	+.50 OR MORE	1.00 OR MORE																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
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SEE REFERENCE NOTES FOLLOWING STATION INDEX

## MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

HAWAII AND PACIFIC  
APRIL 1977

STATION	TEMPERATURE										PRECIPITATION													
	AVERAGE MAXIMUM	AVERAGE MINIMUM	AVERAGE	DEPARTURE FROM NORMAL	HIGHEST	DATE	LOWEST	DATE	DEGREE DAYS	NO. OF DAYS				TOTAL	DEPARTURE FROM NORMAL	GREATEST DAY	DATE	SNOW, SLEET			NO. OF DAYS			
										MAX.		MIN.						TOTAL	MAX. DEPTH ON GROUND	DATE	.10 OR MORE	.50 OR MORE	1.00 OR MORE	
										80° OR ABOVE	85° OR ABOVE	32° OR BELOW	37° OR BELOW											
PACIFIC																								
■ ■ ■ EAST OF 180TH MERIDIAN																								
CANTON ISLAND	89.0M	79.9M	84.5M		92	22	77	8+		14	0	0	0	11.00		1.65	9		.0	0				
FAGA ALU RESERVOIR														22.04		2.72	26		.0	0		20	16	8
FALEASAO VILLAGE	80.7	72.5	76.6	- 1.0	83	28	65	3		0	0	0	0	2.58	.05	.83	7		.0	0		6	1	0
JOHNSTON WSO AP	89.7	82.4	86.1		93	30+	78	24+		18	0	0	0	7.62		2.24	9		.0	0		10	7	2
LEONE																								
FRENCH FRIGATE SHOALS	77.1	67.2	72.2	- .3	82	20	58	21		0	0	0	0	2.06	- 1.10	.75	13		.0	0		8	1	0
MIDWAY SAND ISLAND	72.3	62.8	67.6	.0	80	26	55	3+		0	0	0	0	.84	- 1.53	.21	28+		.0	0		3	0	0
PAGO PAGO WSO AP	87.2	74.6	80.9	.3	89	28+	71	14+		0	0	0	0	6.98	- 5.28	1.81	29		.0	0		8	5	3
WESTERN PACIFIC ISL. NORTH OF 12° N																								
ANDERSEN AFB GUAM	81.4	74.5	78.0	- 1.5	83	16	71	22		0	0	0	0	2.26	- 1.41	.34	29		.0	0		10	0	0
CLARK AFB LUZON	93.3	75.8	84.6	.8	97	24+	73	29+		30	0	0	0	2.27	.74	1.36	26		.0	0		2	2	1
GUAM NAS	85.6	76.5	81.1	.3	89	28	74	24+		0	0	0	0	1.25	- 2.58	.19	11		.0	0		7	0	0
GUAM WSMO	85.1	71.4	78.3	- .7	87	29+	67	28		0	0	0	0	2.29	- 1.74	.29	2		.0	0		9	0	0
MANGILAO																								
ROTA																								
SAIPAN LORAN																								
WAKE WSO AP	83.2	71.9	77.6	- .7	86	29	67	2		0	0	0	0	1.63	- .59	.58	14		.0	0		4	1	0
■ ■ ■ CAROLINE AND MARSHALL ISLANDS																								
ANGUAR														4.65	- 2.91	1.16	4		.0	0		9	3	1
ENIWETAK	83.9	79.9	81.9	- .3	85	30+	79	26+		0	0	0	0	.91	- 1.20	.38	4		.0	0		3	0	0
FALALOP I., ULITHI	87.9	80.4	84.2		90	26	76	20+		1	0	0	0	2.14		.85	2		.0	0		7	1	0
KAPINGAMARANGI ATOLL	87.5M	74.3M	80.9M		90	20+	71	1		4	0	0	0	13.20		2.10	9		.0	0		12	9	7
KOROR WSO	86.8	76.1	82.5	.6	91	19	73	26		7	0	0	0	4.48	- 4.21	1.19	2		.0	0		9	2	1
KWJALEIN MISSILE RGN	86.6	77.1	81.9	.1	89	16+	73	30		0	0	0	0	5.79	- .12	1.73	24		.0	0		9	5	2
LELE I., KUSAIE	85.3	75.7	80.5	- .6	87	26+	71	23		0	0	0	0	10.62	.31	3.61	23		.0	0		12	5	4
MAJURO WSO AP	85.7	77.1M	81.4M		88	4+	72	30+		0	0	0	0	11.31		4.14	24		.0	0		10	5	4
METALANIM																								
MOKIL ATOLL																								
NGASANG, BABELTHUAP														4.33		.90	16+		.0	0		13	3	0
PONAPE WSO	87.6	76.4	82.0	1.3	90	28+	71	28		2	0	0	0	15.93	- 3.65	8.20	23		.0	0		13	6	4
SATAWAN ATOLL																								
TRUK, MOEN I., WSO AP	86.8	77.3	82.1	.8	88	29+	73	30		0	0	0	0	11.47	- 1.70	3.86	23		.0	0		12	6	4
WOLEAI ATOLL																								
YAP WSO AP	89.1	75.5	82.3	.6	91	22	72	25+		8	0	0	0	.91	- 5.07	.33	14		.0	0		3	0	0

SEE REFERENCE NOTES FOLLOWING STATION INDEX

## DAILY PRECIPITATION

HAWAII AND PACIFIC  
APRIL 1977

STATION	TOTAL	DAY OF MONTH																															
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
HAWAII																																	
ISLAND OF KAUAI																																	
ANAHOLA 1114	A	4.59	.03	x	x	1.00	.03			x	x	.07	.09	.15	.06	x	x	.27	.06	1.55	.10		x	x		.96	.10	.07		.05			
BRDYSDH000 STA 985	A	2.30	.06							x	x	.30	.21	.10	.18	.10	x	.40	.06	.09	.19		.01	x	x		.04	.16	.02	.01	.48	x	
EAST LAHAI 834	A	2.64								x	x	.24	.07	.11	.16	.10	x	.24	.04	.26	.33		.01	x	x		.02	.46	.07	.17	.37	x	
ELEELE 927	A	.88	.10							x	x	.06	.07	.03	.07	.13	x	.15	.05	.02	.17		x	x	x		.05	.01	T		.08	x	
HALAULA 1110	A	5.88	.02	x	x	1.87	.06					.14	.11	.30	.05	x	x	.25	.05	1.95	.05			x	x		.60	.28	.08	.05	.11		
HALENAHAO 1006	A	5.33	.03	x	x	.13				x	x	.19	.19	.09	.19	.05	x	.56	.81	.49	.36		x	x	x		.18	1.27	.16		.09	.46	x
HUKILO 846	A	1.23																	.27	.35							.06	.10				.10	
ILILIULA INTAKE 1050	A	12.46	.05	x	x	.16	.11	.04	.05	x	x	.98	.26	.48	.56	.23	x	1.15	.77	2.51	1.04		.03	x	x		.31	1.25	.71	.69	1.07	x	
INTAKE WAINIMA PC 1096	A	17.86	1.90	x	x	4.00	x	x	x	x	x	1.11	x	x	.90	x	x	2.36	x	x	3.69					2.40	x	x	x	1.60	x		
KAMAHUULUULU 1075	A	3.26	.02		.35	.05				.06	.02	.03		.02	.03	.06	.22		.48	.69	.23					.38	.11	.35	.02	.15			
KANEHA RESERVOIR 1092	A	12.97	.15	x	x	4.67	.50			x	x	.30	.05	.30	.45	.10	x	.40	.70	2.20	.50		x	x	x	.60	.80	.30	.15	.80	x		
KAPAA STABLES 1104	A	5.29	.02	x	x	1.20	.13			x	x	.05	.01	.08	.25	.05	x	.26	.33	1.40	.13		x	x	x	.95	.29	.05		.10			
KERLA 1112	A	4.39	.02	x	x	1.39	.02			x	x	.06		.12	.19	.05	x	.17	.10	1.25	.05		x	x	x	.60	.20	.12		.05			
KERAKA 844	A	.74																	.02	.20						.01				.49			
KILAUER 1134	A	7.30		1.50	.21				.10			.07	.10	.09	.10	.10	.14	.11	.04	2.90	.59	.09				.35	.32	.28	.12	.30			
KILAUER POINT 1133	A	4.94	.01	.31	.05			.03	.03			.03	.07	.04	.05	.04		.17	.03	T	.55	2.74	.01		.02	.12	.13	.19		.23			
KOLO 1033	A	1.57		.08														.02		.73	.06	.36				.15				.10			
KOLAR 936	A	4.12	.02	x	x	.01				.03	.03	.38	.17	.12	.18	.05	x	.15	.08	.15	.05		x	x	x	.02	2.10	.10	.21	.33	x		
KOLAR LN (MARK) 840.1	A	.89										.10	x	.03	.01	.02		.02	.05	.02					.15	.09	.56	.03		.03	x		
KOLAR MAUKA 894	A	4.45	x	x	x	.04				x	x	.52	x	.35	x	x	x	.84	x	1.31			x	x	x	x	1.01	x	.38	x	x		
KUKULUOLA 935	A	1.19								x	x	.24	.06	.01	.06	.03	x	x	.10	.05	.16	.03		x	x		.01	.26		.01	.17	x	
LIHUE VARIETY ST 10621	A	7.23		x	x	.54				x	x	.37	.11	.22	.13	.12	x	.20	.50	1.54	.04		x	x	x	.32	1.80	.38	.08	.88	x		
LIHUE 1020	A	3.15	x	x	.36					x	x	.11	.05	.08	.10	.01	x	.28	.28	.59					x	.42	.36	.13		.36	x		
LIHUE 450 1020.1 AP	A	4.11		.36	.48	.13	T	T	T	.01	.02	.02	.06	.05	.09	.03	.05	.12	.03	2.00	.04			.16	.01	.09	.09	.05					
MAKALEI 1 985	A	.57	.05									.01		.02	.01	.03	.08			.06	.03	.05				.17				.04	.02		
MAHA 1026	A	2.01																	.04	.15	.05					.01		.92		.14			
MOHAI UPR CROSS 1093	A	5.90	.62	x	x	.19						x	.09	x	.14	x	.09	x	.41	x	2.60	x	.21	x	x	x	x	1.36	x	.09	x		
MOUNT MAHALELE 1047	A	3.72																															
NIU RIDGE 1035	A	16.28	.01	x	x	1.07	.15	.04	.04	x	x	.80	.25	.45	.36	.21	x	x	1.10	.68	2.85	.95	.05	x	x	.59	1.25	1.51	1.03	2.79	x		
PH WAINIMA 1115	A	x	x	x	x	7.36	.16			x	x	.57	.25	.07	.32	.12	x	2.37	.24	1.84	1.10		T	x	x	.21	.19	.14	.14	.77	x		
PRINCEVILLE BRANCH 1117	A	x	x	x	x	3.29	.34		.02	x	x	.25	.03	.09	.10	.01	x	.17	.72	1.17	1.95					2.00	.15	.02		.55			
PUEHU RIDGE 1040	A	3.43								x	x	.14	.10	.10	.06	.10	x	.21	.33	.44	.05		.01	x	x	.16	1.20	.02	.01	.26	x		
PUNI 1013	A	3.19																															
WAIHANA 930	A	.85	.01							x	x	.11	.05	.05	.20	.08	x	.08	.05	.02	.09									.01	T	.10	x
WAIHAI LOWER 1054	A	10.33	.03	.11	.15	.02	.01	.01	.10	.19	.23	.18	.24	.27	.25	.41	.24	.47	.12	.21	1.59	.80	.01	.04	.05	.26	.67	.44	.93	.50			
WAIHAI UPPER 1052	A	12.29	.04	.01	.15	.08	.01	.02	.03	.29	.25	.21	.28	.22	.46	.49	.25	.51	.14	.31	2.43	.95	.02	.03	.12	.09	1.99	.65	.33	1.46	.56		
WAIHAI 843	A	1.01																															
WAILUA KA 1065	A	5.43	x	x	.63	.06				x	x	.19	.02	.16	.31	.06	x	.16	.20	1.96	.31		x	x	x	.46	.26	.34	.09	.34	x		
WAIWAI 847	A	.35																		.15						.02				.19			
WEST LAHAI 931	A	1.46	.01						x	x	x	.30	.08	.05	.17	.05	x	.15	.09	.05	.08		T	x	x	.02	.16	.02	.02	.20	x		
ISLAND OF OAHU																																	
ALONA STADIUM-HALAHUA	A	3.04	1.08									x	.08	x	x	x	x	x	1.15	.79	x		x	x	x	x	x	x	.74				
BEGETARIAN PUMPING STA	A	2.47	.14	.20	x	.01		.01	.05	.02	x	x	.14	.01	.15		.05	.04	.08	x	.35	.65	.35	.63	.02	.04	.01			.01	.09	.02	
B Y U LAIE 803.1	A	6.79		.05	.20	1.57	.26			.05	T								.34	.35	1.40	.02		.19		.10	1.90		.02	.13			
CAMPBELL IND PK 702.5	A	1.41	.01	.24	.02														.25	.62	T					T	T	.27					
CAMP 84 807	A	2.71	.07	x	x	.32	x	x	x	x	x	.15	x	x	.06	.04	.08	x	.07	.27	.32	.39	x	x	x	.47	.46	x	.02				
COCONUT ISLAND 840.1	A	6.13	.51	x	1.25	.20	.75	.01	.02	x	x	.05	.01	.01	.03	x	x	.14	.42	.32	.49		x	x	x	1.01	.78	.06	x	.09			
ELM PLANTATION 741	A	.86	.29	x	x	.45	x	x	.18	x	x	.79	x	x	.26	x	x	1.09	x	.10	.34	.04	.14		x	.90	x	x	.48	x	x		
HELEMANO INTAKE 891	A	4.04	x	x	x														.25	.38		.01											
HONOLULU GSEVERY 702.2	A	1.24	.40	.10				T	T	T	T	.02	T	T	T	.02	.03	T	.46	.62	.45		T	.05	T								
HONOLULU WSD 703 AP	A	1.81	.16																														
KAEHA POINT 841.3	A	4.05	x	x	x	x	2.00	x	.02	x	x	x	x	.15	x	.02	x	x	x	.22	.21		x	x	x	x	.49	x	x	.94	x	x	
KAHANA 893	A	16.18	x	x	x	5.89	x	x	x	x	x	1.95	x	x	x	x	x	1.17	x	x	x	x	x	x	x	7.09	x	x	x	x	x		
KAILUA FIRE STA 781.3	A	11.08	2.00	1.08	1.20	1.20	1.10	1.06	.07	.03		.01	.05	.04	.02	.08	.09	.07	.55	.50	.95	.03				.29	.64	.05		.02			
KALANUI RES SITE 777	A	18.89	.72	.18	3.78	2.35	.34	.12	.02	.02		.12	.08	.08	.04	.08	.04	.02	.48	.58	5.10	.84	.20	.02	.29	1.04	.04	.08	.10	.82	.36	.02	
KANEHE MAUKA 781	A	12.57	.77	.42	3.8.																												



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		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
HAWAII																																	
KUKUIHALE HILL 206	13.85	x	x		.42	1.80	4.23	1.56	x	x	x	2.31	.03	.05		.01	x	x	.05			1.40	.18	x	x	.07		.36	.01	.18	1.26		
KULANI CAMP 78	18.55	.22	1.75	.04	.04	.57	1.10	1.37	1.65	1.10	1.00	1.20	.28	.04	.30	.28	.61	.04	.10	.85	.20	.43	.28		.04	.20	.30	.08	.51	.70	3.24		
KULANI MAUKA 76	2.77			.22	.25	.25	.54	.47	.16	.05	.05						.03		.08	.02	.47	.15		.03	x	x	x	x	x	x			
KULANI SCHOOL SITE 78	15.51	1.30	x	x	x	x	x	x	x	6.20	x	x	x	x	x	x	2.40	x	x	x	x	x	x	2.25	x	x	x	x	x	x	3.36		
LAKIHAU 68.2	6.22		.73	.60	.16	.09	.18	.09	.21	.61	.11	1.56	.03		.02	.50		.52		.03	.46	.14		.03	.08	.24			.25	.08			
MAKAHALAU 103	5.45		x	x	1.91	1.03	.68	.35									x	x	.08			.40	.05	x	x	.21	.74			.40	x		
MAUKA 2	2.92	T									x	x	1.02									.30	.90	.30		T					.40	x	
MAUNA KEA OBS 111.2	1.55	T		.42	.32	.03					x	x								T	.18	T		.02	T			T	.51	.07			
MAUNA LOA SLOPE OBS	3.61			1.09	.13	.07													.02			.60	.18		.02	.18			.02	.86	.05		
MIDDLE HOLUALOA 68.1	2.76	x	x	x	.81	x	x	x	x	x	x	.83	x	x	x	x	x	x	.90	x	x	x	x	x	x	.22	x	x	x	x	x		
MIDDLE PEN 147.1	2.15	x	x	x	.40	x	x	x	.25	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	1.50	x			
MOAULA 18	6.64	x	x	x	x	x	4.10	x	x	x	x	.03	x	x	x	x	x	x	x	x	2.40	x	x	x	x	.11	x	x	x	x	x		
MOUNTAIN VIEW 91	24.74	.31	.47	.17	.08	.20	1.99	2.14	1.92	1.38	.92	1.70	.65	.64	.28	.51	.21	.26	.20	.76	.55	3.32	.63	.05	x	.01	.02	.08	.27	1.52	3.48		
NAALEHU 14	4.24	.32	x	x	.74	1.00	.15	T											T	.34	1.05	.38	.02	x	x	.09	T			.14	x		
NAPPOPOO 28	3.42	x	x	x	.94	x	x	x	x	T	x	1.07	x	x	x	x	x	x	.62	x	x	x	x	x	x	x	x	x	x	x	x		
OKALA 223	20.84	T	.08	.03	.36	.27	1.32	2.84	2.87	1.52	2.45	1.15	.80	.20	.11	.11	.20		.42	.01	.05	.62	.37	.12		.07	.02	.05		.80	4.00		
OPINIHALE 2 24.1	2.87	T	.57	.54	.29	T	.07	.03	T		.58	T		T	.04	.22			.08	T		T	T		.02	.08	.11	T		.14	.05	.04	
ORCHID LAND EST 91.5	10.32	2.33	x	x	x	x	x	x	x	x	x	x	x	x	x	3.65	x	x	x	x	x	2.78	x	x	x	x	x	x	x	1.55	x		
PARAHU 217	14.69	.01	.36		.01	2.65	3.13	1.51	1.67	.97	.93	.02	.07	.05			.08					.57	.28		x	x	x			.22	2.15		
PARUULO 221	18.58		.02		.01	.28	3.04	4.08	5.50	.66	.80	.04	.02	.07	.01	.01	.22		.14			1.06	.08	.06	T						3.28		
PARULA 21	5.58	.07	x	x	1.90	.32	.03										.13	1.85	.72	.05	T	x	x		.15	.19			.18	x			
PAHOA 55	18.28	1.52	.38	.48	.23	.18	.85				.48	.88	.35	.27	.41	.22	.08	.05	.04	2.85	.74	.32	.22	.03	x	x	x	x	14.00	x	x	x	
PAKAO 37	14.00	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x		
PAPAIKOU 144.1	11.86	.12	x	x	1.33	.32	1.32	.75	x	x	x	2.43	.32	.27	.25	.08	x	x	.10	.34	.45	.89	.13	x	x	.01	.06		.16	2.63	x		
PAPAIKOU MAUKA 140.1	x	.34	x	x	1.86	.84	3.20	2.41	x	x	x	7.05	.87	.55	.50	.15	x	x	.31	.75	.07	2.28	.72	x	x	.02	.03		.05	2.22	x		
PIIHANUA 88	17.60	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	17.60	x	x		
POHAKULOA 107	3.41	x	x	x	.87	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	1.13	x	x	1.31	x		
PUIKOHOLA HEIAU 98.1	1.47	.02	.78	.01																.03	.04					.55	.02				.02		
PUU LEHUA 73	2.00	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	2.00	x		
PUU LAHALA 94.1	3.85				2.31	.63					x	.08					x	x	.04			.28		x	x	x	.12	.12		.07	x		
SADDLE ROAD 1 84	35.78	x	x	x	x	x	x	12.60	x	x	x	x	x	x	14.01	x	x	x	x	x	x	x	8.25	x	x	x	x	x	x	.93	x	x	
SOUTH KONA 2.31	2.60	1.00	.05	.06	.11		.14				.01	.03					x	x	x	x	.25	.11	.28	.35	.01		.09		.01		.10		
SOUTH POINT CORRAL 3	.35	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	.35						
UPOLI POINT USCO 159.2	8.12		.92		T	.98	.50	.30	.72	.70	1.34	1.42	.02		T	T			.01	.02	.70	.04	T			.26	T		T	T	.19		
WAIKAKA SCD 88.2	31.41	.28	.12	.52		.45	3.01	2.45	2.77	1.22	1.24	1.71	.67	.25	.55	.16	.26	T	.50	1.62	.62	2.46	.33	.06	.02		.02	T		1.88	8.13		
WAIKALOA-DOIS CAS 85.8	1.18		x	x	.83	T														T	.31					T				.05			

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STATION	TOTAL	DAY OF MONTH																																
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
PACIFIC																																		
* * *																																		
EAST OF 180TH																																		
MERIDIAN																																		
CANTON ISLAND	11.00	-	-	*	.22	.17	.22	.05	.80	1.65	*	1.17	.66	.35	.08	-	.02	*	.80	1.21	-	-	.29	.73	-	-	1.20	.30	.07	-	-	-	-	
FAKA ALU RESERVOIR	22.04	-	-	-	-	-	-	-	-	1.56	1.07	.85	.88	.37	.68	.72	1.66	.04	.06	.01	2.15	1.97	.85	.73	.86	2.42	2.72	.17	.15	.77	1.03	-	-	-
JOHNSTON WSO AP	2.58	.02	.02	.25	T	.04	-	.83	.03	.06	.09	.05	.02	.03	T	.03	T	.03	T	.20	-	-	.85	T	.01	.01	T	.02	-	-	-	-	-	
LEONE	7.62	.76	.41	.18	.36	T	.20	.03	.13	2.24	.01	.01	-	-	-	-	.05	.53	.64	.08	-	-	.08	.38	.52	.13	1.03	-	-	-	-	-	-	
FRENCH FRIGATE SHOALS	2.06	.02	.02	.02	-	-	-	.02	-	-	-	-	-	.75	.01	.04	-	.14	.27	.12	.14	.02	.01	.15	.01	.16	.16	-	-	-	-	-	-	
MIDWAY SAND ISLAND	.84	.01	-	-	T	.08	-	.02	.02	T	.03	.21	-	.01	T	.03	.08	T	-	T	T	T	.03	T	-	.12	.12	-	-	-	-	-	-	
PAGO PAGO WSO AP	6.98	-	-	-	T	T	-	.10	1.53	-	.03	-	-	.01	T	.11	.01	T	.11	1.27	.97	T	.07	.06	.30	.01	.71	T	1.81	-	-	-	-	
* * *																																		
WESTERN PACIFIC ISL.																																		
NORTH OF 12 N																																		
ANDERSEN AFB GUAM	2.26	.02	.02	.02	-	.02	T	.04	.10	.12	.25	.16	T	-	T	.01	T	.01	.33	.15	.16	.06	.23	.02	.19	1.36	T	T	.34	.01	-	-	-	
CLARK AFB LUZON	2.27	-	-	-	-	-	-	.13	.11	.04	.03	.19	-	T	T	-	.03	.10	T	.16	.04	.16	.03	T	.04	T	.12	.03	-	-	-	-	-	
GUAM WSO	1.25	T	.04	T	-	-	-	.16	.14	.09	.06	.06	-	-	-	-	-	.08	.11	.03	.04	.27	.13	.26	.06	.08	-	-	-	-	-	-	-	
GUAM WSO	2.28	-	-	-	.01	.01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
MANOILA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
ROTA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SAIPAN LORAN	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
WAKE WSO AP	1.63	T	.30	T	-	.01	-	T	T	-	.22	.02	.03	.58	-	-	T	-	T	.06	T	.05	-	.18	.01	.08	.05	.03	T	-	-	-	-	
* * *																																		
CAROLINE AND																																		
MARSHALL ISLANDS																																		
ANGUAR	4.65	.83	.37	.32	1.16	.27	.16	-	-	.48	-	-	-	.05	.11	-	-	-	-	.08	-	-	.02	.02	-	.16	.05	.03	.03	-	-	-	-	
ENIWE TAK	.91	-	-	.01	.38	-	-	.03	-	-	.02	.03	-	.13	.01	.02	.04	-	.09	.10	.01	.04	-	-	-	.16	.05	.03	.03	-	-	-	-	
FALALUP I. ULITHI	2.14	.07	.85	.01	.04	.09	.03	.03	-	-	.06	1.40	2.00	.05	.10	.20	.09	-	-	.30	.80	1.05	1.30	.05	.10	.19	.05	.20	-	-	-	-	-	
KAPINGAMARANGI ATOLL	13.20	.02	-	-	.45	1.58	-	2.10	-	-	.06	1.40	2.00	.65	1.15	-	-	-	-	.30	.80	1.05	1.30	.05	.10	.19	.05	.20	-	-	-	-	-	
KOROR WSO	4.48	.02	1.18	.20	.08	.27	.02	.68	-	-	.06	1.40	2.00	.37	.28	.08	.46	-	-	.30	.80	1.05	1.30	.05	.10	.19	.05	.20	-	-	-	-	-	
KWAJALEIN MISSILE RON	5.78	T	.12	.01	T	-	-	T	-	-	.01	-	-	T	.11	.02	-	T	T	-	-	T	.18	.04	1.73	.06	.80	.57	.60	.37	1.06	-	-	
LELE I. KUSAIE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
MAJURO WSO AP	10.62	2.61	.10	.03	1.02	T	.11	-	T	T	.10	.05	.02	-	.01	.01	.56	T	-	.02	.01	.01	1.28	3.61	.22	T	.04	.18	.23	.38	-	-	-	
METALANIM	11.31	-	-	.38	-	.08	.08	.14	.08	.20	-	-	-	-	-	-	-	-	.12	.13	.01	2.25	.05	2.00	4.14	.04	-	-	-	-	-	-	-	
MOKIL ATOLL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
NGASANG-BABELTHUAP	4.33	.27	.10	.36	.19	.10	.10	.06	.10	-	.01	.04	.14	.11	-	-	.80	-	-	.14	1.28	2.01	.80	8.20	.68	1.24	.08	.02	.22	.08	.20	-	-	
PONAPE WSO	15.93	-	-	.01	.58	T	.23	.21	.06	T	.15	.01	.04	.14	-	T	.01	T	.06	.14	1.28	2.01	.80	8.20	.68	1.24	.08	.02	.22	.08	.20	-	-	
SATAWAN ATOLL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
TAUAK. MOEN I. WSO AP	11.47	T	T	.20	.19	-	.66	.38	-	-	.02	T	-	T	.04	.08	.03	-	-	.07	1.58	1.01	.31	3.86	.84	.34	.12	.01	-	T	1.72	-	-	
WOLEAI ATOLL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
YAP WSO AP	.91	.05	.04	T	-	T	-	-	-	-	T	-	-	.01	.33	.23	-	T	-	.06	.10	.02	.01	-	.01	.04	T	.01	-	-	-	-	-	

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STATION		DAY OF MONTH																															AVERAGE
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
HAWAII																																	
ISLAND OF KAUAI																																	
KANALOHULU 1075	MAX MIN	67 45	69 47	66 53	65 50	65 49	62 48	66 50	64 52	62 52	70 52	69 54	69 54	67 54	69 53	65 53	69 51	69 45	65 45	66 51	68 53	66 54	69 49	65 42	63 54	65 52	67 49	69 55	70 50	69 57	69 50	66.8 50.8	
KILAUEA POINT 1133	MAX MIN	88 67	84 67	85 65	74 66	77 67	75 67	76 68	79 68	78 70	80 69	81 70	81 68	80 68	77 69	80 69	79 66	79 69	81 68	81 65	82 67	78 67	80 68	79 70	79 66	83 69	81 70	80 71	81 69	80 69	79.9 68.0		
KOLOA LN (MAK) 940.1	MAX MIN	86 65	87 64	86 65		80 66	78 67	79 66	81 66	79 69	82 70	87 68		81 69	81 69	82 70	82 69	81 69	87 68	87 67	85 67	82 67	82 67	79 66	82 67	82 69	83 69	83 71	83 69		82.4 67.7		
LIMUE WSO 1020.1 AP	MAX MIN	82 63	80 62	76 64	78 66	77 66	79 69	79 71	79 70	80 70	80 70	81 71	80 70	80 69	80 70	80 68	80 69	80 66	79 62	79 66	80 71	80 66	77 68	78 67	80 68	80 68	72 73	70 70	81 69	81 69	79.5 68.2		
MANA 1026	MAX MIN	82 63	80 62	81 63	80 63	80 63	81 59	82 59	84 63	83 62	82 61	84 64	85 63	85 66	84 66	85 62	84 60	85 60	88 60	80 64	83 64	85 64	85 63	85 62	84 65	81 66	83 65	80 65	84 65	83 62	83.0 63.1		
NIU RIDGE 1035	MAX MIN	79 60	84 65		81 58	82 59	57				85 58	85 58	83 61	84 60	84 58					81 58	80 59	83 56	84 56	85 59	80 61	80 61	76 61	81 62	83 62				
WAIKAI LOWER 1054	MAX MIN	75 55	77 55	71 61	68 61	68 60	70 59	68 63	71 61	72 62	71 61	71 65	71 64	70 63	70 61	62	71 63	74 61	71 55	69 60	70 63	70 67	72 55	70 58	70 59	69 63	71 63	72 65	73 65	73 66	68 60	70.9 61.2	
ISLAND OF OAHU																																	
ALOHA STADIUM-HALAWA	MAX MIN	81 68			88 68	79 67	80 66	78 68			83 65	80 70	81 69					85 65		77 68							84 65						
B Y U LAIE 903.1	MAX MIN	79 68	78 67	77 66	81 65	73 66	75 68	78 68	79 70	80 69	80 69	81 68	80 69	80 69	81 69	80 68	80 68	78 68	76 68	80 64	80 71	80 69	80 67	80 66	80 65	80 65	82 68	82 73	82 71	82 72		79.4 68.1	
EWA PLANTATION 741	MAX MIN	79 65			83 66	83 65	79 64	81 59			85 64	85 69	85 69	85 65	84 67			83 63	71 64	83 65	82 66	83 63				85 63	81 63	81 65	86 66	87 68			
HONOLULU WSO 703 AP	MAX MIN	81 71	84 70	83 71	83 70	81 69	81 67	82 70	84 71	84 72	84 71	85 71	84 73	84 72	84 71	84 70	83 69	82 66	75 67	82 66	81 70	82 71	83 69	81 68	81 69	80 67	85 67	86 73	86 71	85 71	85 71	82.8 69.8	
KANEIHE MAUKA 781	MAX MIN	77 66	80 64	78 63	71 63	70 61	70 60	72 61	76 65	78 66	77 67	78 68	78 69	78 65	78 69	78 68	77 68	78 65	80 66	72 66	76 65	76 68	75 67	79 65	76 65	79 67	77 67	80 68	80 70	75 69	76.6 67.7		
MANDAR LYON ARBORETUM	MAX MIN	76 66	80 64	82 65	76 65	75 59	70 61	75 61	77 65	78 66	78 66	76 65	76 66	75 65	74 64	75 63	74 62	78 63	80 62	76 63	73 63	77 62	78 64	74 64	80 62	81 62	81 63	81 63	75 66	76.9 63.9			
OPAEULA 870	MAX MIN	84 64	84 63	84 62	84 63	85 61	84 60	80 61	73 61	75 64	75 63	74 62	74 62	75 63	74 62	75 62	74 62	75 63	75 62	80 61	76 63	76 63	75 64	76 63	80 62	80 61	80 60	80 61	80 63	80 64	78.0 62.5		
WAIALEE 896.3	MAX MIN	79 62	79 66	82 68	74 66		74 67	74 65	77 68	79 66	79 68	78 66	80 66	79 67			79 64	78 66	76 67	76 65	78 69	77 68	78 69	77 66	79 67	79 66	79 67	80 71	80 69	76 69	77.9 67.2		
WAIALUA 847	MAX MIN	80 64	85 65	82 63	73 68	75 64	74 62	75 65	78 67	79 68	80 65	82 66	80 64	81 66	81 63	80 65	80 62	84 62	76 61	78 62	80 61	79 57	81 58	77 60	81 64	81 61	81 61	84 61	84 60	79 63	79.7 63.0		
WAIKIKI 717.2	MAX MIN	81 70	84 68	82 69	82 67	81 67	79 60	80 68	82 69	83 70	83 70	83 69	84 69	83 70	83 67	82 67	82 68	83 65	83 65	75 68	82 69	82 69	81 66	82 65	81 67	83 64	82 64	85 69	85 69	86 68	86 68	82.4 67.6	
WAIMANALO EXP FARM	MAX MIN	77 69	80 67	78 67	77 65	74 65	73 64	77 63	78 68	80 69	80 69	80 64	80 64	80 67	79 67	79 67	78 68	84 69	75 64	76 65	78 68	78 69	80 67	78 67	80 65	76 63	80 64	80 70	81 70	78 70	78.5 67.0		
ISLAND OF MOLOKAI																																	
MOLOKAI AP 524	MAX MIN	81 68	84 68	75 68	78 65	79 69	74 63	77 62	78 60	80 68	80 62	81 60	81 67	82 66	82 66	80 65	81 66	78 64	73 63	83 64	81 66	82 65	80 65	80 65	80 67	82 65	78 62	82 62	82 66	82 66	80.0 65.1		
ISLAND OF LANAI																																	
LANAI AIRPORT 656	MAX MIN	75 63	78 68	74 64	73 64	76 62	72 61	73 60	74 60	77 63	79 63	78 60	80 63	77 62	78 60	77 63	78 62	75 65	76 61	76 61	75 63	77 63	77 58	77 62	77 62	76 62	73 60	78 61	80 63	79 64	77 64	76.5 61.8	
LANAI CITY 672	MAX MIN																																
ISLAND OF MAUI																																	
HALEAKALA RS 338	MAX MIN	57 41	59 45	58 45	55 45	55 46	59 48	61 43	67 44	67 43	69 40	62 40	68 40	67 48	67 46	61 40	61 41	60 37	61 35	55 40	56 42	57 39	60 39	60 39	60 40	60 41	55 42	58 42	60 46	59 39	60.5 41.6		
HANA AIRPORT 355	MAX MIN	72 61	82 66		79 67	79 67	72 64	75 68	77 69	80 70	82 70	80 68	83 68	82 66	80 66	83 67	80 61	82 66	82 65	75 69	80 69	80 67	80 70	80 64	80 67	80 70	82 68	81 69	82 69	82 68	82 66	80.2 67.1	
KAAHAPALI AP 453.1	MAX MIN	80 68	80 68	80 68	80 68	80 63	73 62	74 61	75 65	78 66	79 64	80 66	79 66	81 66	82 67	80 67	81 66	81 65	79 65	81 61	79 65	81 61	80 66	81 64	80 64	78 64	81 63	80 63	82 65	83 67	80 67	79.6 65.3	
KAHULUI WSO 398 AP	MAX MIN	85 68	82 71	80 70	74 68	74 68	74 68	78 68	80 69	81 70	81 70	81 68	83 70	83 68	82 67	83 69	86 65	81 66	80 66	80 65	80 65	82 65	82 67	80 65	82 65	80 65	82 65	85 65	84 67	80 71	81.0 67.8		
KAILUA 446	MAX MIN	79 65			79 64	72 64	72 62	71 63			78 67	73 64	73 66	75 64	75 64			78 64	76 67	75 66	75 66	75 67	75 65			76 61	78 63	75 67	77 67				
KEAWAKAPU BEACH 260.2	MAX MIN	81 63	82 70	82 67	82 68	79 66	79 63	79 61	82 62	85 62	87 60	83 63	86 63	87 63	86 61	85 61	86 60	84 64	83 65	85 61	86 66	83 66	84 62	85 65	83 65	84 65	81 63	80 63	84 65	85 66	86.3 63.6		
KULA SANATORIUM 267	MAX MIN	78 58	79 59	79 61	67 60	68 59	70 57	72 58	72 56	71 57	72 55	72 56	73 54	71 54	72 54	72 54	70 55	67 53	70 54	76 58	70 54	73 55	71 54	69 55	57 57	66 58	68 59	72 52	71 53	72 60	71.5 56.1		

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HAWAII																																	
LAHAINA 361	MAX MIN	83 69	86 63	85 64	87 69	83 66	82 62	84 63	85 64	85 64	86 63	85 63	85 65	83 65	83 65	84 65	84 66	84 64	83 70	78 68	84 67	83 65	85 68	85 67	84 66	85 63	84 63	84	84 71	85 71	84 70	84.1 65.6	
WAILUKU 386	MAX MIN	83 67			85 67	74 66	70 65	71 65					78 69	76 67	78 68	80 68	80 67		81 66	80 65	82 67	78 69	78 70			80 65	82 65	79 67	79 69	79 68			
. . .																																	
ISLAND OF HAWAII																																	
HAWAII VOLCONS NP HQ 54	MAX MIN	69 55	67 52	70 58	68 49	67 57	62 56	63 55	63 54	61 54	61 53	64 55	63 54	70 55	66 52	64 48	64 48	66 50	68 57	64 53	64 53	64 53	65 53	65 48	66 48	66 48	69 48	68 48	70 55	66 53	66 55	65 54	65.6 52.8
HILO WSO 87 AP	MAX MIN	85 66	88 66	83 67	87 63	80 69	76 68	79 69	76 68	83 69	78 69	81 68	81 68	82 65	79 65	82 64	84 64	87 66	79 67	83 67	82 68	81 68	81 66	82 63	83 64	85 63	86 63	86 69	81 68	78 68	78 63	81.9 66.4	
KAINALIU 73.2	MAX MIN	78 60	79 60	76 62	71 63	75 60	76 60	75 60	75 63	78 64	76 62	73 63	76 61	73 63	72 58	75 60	77 58	75 57	75 57	76 58	76 59	76 58	78 57	76 56	73 58	75 59	73 58	76 59	77 61	77 61	77 63	75.5 59.9	
KAMUELA 192.2	MAX MIN	75 51			78 52	74 59	68 59	66 58	66 59				70 56	68 59	68 57	69 57	68 57		75 48	76 53	76 53	71 58	69 58			72 53	74 54	74 57	73 58				
KAPOHO BEACH 93.11	MAX MIN																																
KEAAU 92	MAX MIN	80 64	83 64	84 65	83 61	82 61	77 65	72 65	75 66	74 66	78 65	76 66	76 65	78 64	79 63	76 63	78 62	78 63	83 64	78 65	81 66	80 66	77 64	77 61	79 62	78 61	81 61	80 63	80 66	77 66	76 66	78.5 64.0	
KEALEKEUA 2 28.7	MAX MIN	77 62	78 63		75 62	78 62	75 62	75 64	76 62		77 63	76 63	78 63	74 64	73 59	72 62	78 60	77 60	77 57	77 64	77 61	77 60	77 60					77 60	77 63	78 64	76.3 61.7		
KOHALA MISSION 175.1	MAX MIN	81 62	81 64	80 66	78 66	77 65	68 64	66 65	71 65	73 64	71 64	72 65	74 65	76 64	78 65	77 66	77 63	77 61	81 61	82 65	79 66	76 65	76 65	77 63	79 62	77 64	77 64	78 65	79 65	78 66	72 65	76.3 64.3	
KONA (KAILUA) 68.3	MAX MIN				80 70	83 70	82 70	82 71					86 68	84 69	80 70	80 68	83 68			83 65	84 68	83 69	83 69	83 68			83 68	82 68	84 66	83 70	84 69		
KULANI CAMP 79	MAX MIN	69 48	67 46	68 46	76 52	76 52	61 52	58 50	60 50	59 50	58 50	61 53	59 49	59 47	60 48	58 48	57 41	61 43	63 45	60 50	59 49	60 49	58 48	59 39	60 44	62 45	62 49	63 47	63 45	65 45	59 51	62.0 47.7	
MAUNA LOA SLOPE 085	MAX MIN	53 34	48 30	48 33	49 34	50 34	54 35	55 36	52 36	51 32	49 33	53 34	51 33	53 34	50 33	54 35	53 38	48 30	53 31	48 34	47 32	47 34	50 33	53 36	53 37	46 36	45 36	48 34	48 34	44 32	45 35	49.9 33.9	
MOUNTAIN VIEW 91	MAX MIN	80 61	77 58	78 58	78 58	79 59	72 62	66 62	68 60	69 62	73 61	73 61	69 61	73 59	75 59	71 58	74 58	77 57	77 57	73 61	74 61	71 60	71 60	70 58	76 56	76 56	77 56	79 60	73 62	73 61	70 61	73.7 59.3	
NAALEHU 14	MAX MIN	78 65			78 64	79 65	70 66	75 61					77 66	74 62	76 64	77 66	76 65			76 63	75 65	74 65	78 65	76 62			75 63	77 64	77 64	78 67	78 66		
OOKALA 223	MAX MIN	79 63	78 64	78 64	77 64	77 65	71 65	69 65	73 65	73 67	72 66	75 65	74 65	75 64	78 64	77 64	75 67	76 69	80 63	78 64	78 66	76 65	78 64	72 63	77 63	77 64	77 64	78 66	79 66	78 64	70 64	75.8 64.6	
OPIMIHALE 2 24.1	MAX MIN	81 63	81 64	73 60	78 63	75 61	76 62	80 63	77 65	76 63	79 67	75 65	75 66	73 60	77 62	79 63	77 62	79 58	78 61	78 63	80 62	78 61	75 58	78 59	77 63	75 63	81 58	80 62	75 63	73 65	73 65	77.2 62.1	
PAHALA 21	MAX MIN	78 64			78 62	80 62	72 63	79 66					82 65	77 62	80 61	81 64	79 62			79 59	72 63	76 63	79 64	76 60			78 59	78 59	80 60	78 62	78 63		
PUUKOHOLA HEIAU 98.1	MAX MIN	85 65	86 68	85 67	85 67	80 73	81 75	84 70	81 72	90 72	87 70	87 72	87 72	87 72	89 75	85 72	87 71	85 70	84 68	85 72	86 72	88 68	88 71	86 70	86 68	86 67	86 67	85 67	85 67	86 67	88 69	85.7	
SOUTH KONA 2.31	MAX MIN	69 58	77 59	78 61	71 57	76 58	72 59	73 59	74 62	76 60	75 60	73 61	71 58	79 56	76 59	75 56	73 55	75 59	76 57	78 58	79 59	75 57	71 55	73 55	72 55	73 54	70 55	75 57	78 59	74 58	76 60	74.4 57.9	
UPOLU POINT USCG 159.2	MAX MIN	82 68	82 68	82 68	80 70	81 68	73 66	74 66	77 66	78 68	77 66	77 67	79 67	79 67	79 67	79 65	78 66	81 67	83 68	81 67	78 67	79 67	78 67	78 67	80 67	80 67	79 67	81 67	79 68	77 67	77 67	79.0 67.1	

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STATION		DAY OF MONTH																															AVERAGE
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
PACIFIC																																	
• • •																																	
EAST OF 180TH MERIDIAN																																	
CANTON ISLAND	MAX MIN	89 81	90 80		90 82	90 79	90 79	91 77	90 77	86 80		87 81	88 78	85 78	89 81	89 81	90 81	91 81	90 81	90 79	92 80	84 79		90 82	85 80	89 80	89 80	89 80	90 82	89.0 79.9			
JOHNSTON WSO AP	MAX MIN	81 73	82 68	77 65	77 70	80 70	80 69	78 69	80 69	80 72	79 72	80 73	81 74	80 74	80 72	81 72	81 72	80 72	81 73	81 72	82 74	82 76	82 77	82 76	82 74	82 75	83 74	82 73	82 77	80.7 72.5			
LEONE	MAX MIN	91 81	90 84	91 85	93 82	88 88	91 84	90 84	89 84	88 83	89 84	89 83	90 83	91 83	87 82	90 82	90 85	90 84	89 79	86 79	90 83	90 82	89 83	88 78	86 81	92 84	90 82	93 83	90 82	93 82	89.7 82.4		
FRENCH FRIGATE SHOALS	MAX MIN	80 65	73 61	68 62	72 62	72 62	75 69	77 68	75 66	73 70	79 69	81 70	81 69	78 70	76 70	78 69	78 68	78 67	78 68	82 71	79 58	77 62	79 69	76 68	78 65	77 65	78 69	78 68	80 72	78 71	77.1 67.2		
MIDWAY SAND ISLAND	MAX MIN	67 55	65 56	67 55	70 57	71 64	75 67	75 67	75 66	77 65	77 65	76 66	70 62	73 64	72 63	70 60	64 59	68 61	67 61	68 62	71 63	73 63	74 64	73 65	80 70	75 66	76 65	73 65	76 63	76 63	72.3 62.8		
PAGO PAGO WSO AP	MAX MIN	87 74	87 73	88 74	89 74	86 75	87 74	87 73	88 80	87 76	87 76	89 74	88 71	87 71	87 72	87 74	87 77	86 77	88 75	85 76	86 75	86 75	87 75	88 77	86 75	89 74	88 75	88 75	89 75	86 73	88 73	87.2 74.6	
• • •																																	
WESTERN PACIFIC ISL. NORTH OF 12 N																																	
ANDERSEN AFB GUAM	MAX MIN	81 76	81 75	82 74	81 75	81 75	81 75	80 72	82 76	82 72	81 75	81 75	81 75	82 75	81 76	83 73	81 75	82 75	82 73	81 74	82 74	80 74	81 74	80 74	81 74	82 75	82 74	81 75	82 74	82 77	81.4 74.5		
CLARK AFB LUZON	MAX MIN	90 77	90 77	93 75	93 75	90 75	90 73	95 75	95 75	95 75	93 77	93 75	93 75	90 79	90 75	97 75	93 77	97 77	97 77	93 77	95 77	95 77	95 75	93 77	95 75	95 75	93 77	93 75	90 73	90 77	93.3 75.8		
GUAM NAS	MAX MIN	84 77	85 76	86 76	87 77	87 76	85 76	84 77	85 76	85 76	86 77	84 75	86 86	85 78	85 77	85 78	85 76	85 78	86 74	86 76	86 74	86 76	86 75	86 74	86 76	86 75	87 77	87 77	89 77	85 76	86 78	85.6 76.5	
GUAM WSMO	MAX MIN	85 74	84 72	84 72	84 73	85 70	84 72	84 71	84 71	86 74	84 72	85 73	84 72	86 69	85 71	86 72	86 73	85 72	86 73	86 73	85 70	85 68	85 70	86 70	85 70	85 72	86 73	86 73	87 74	87 74	86 74	85.1 71.4	
SAIPAN LORAN	MAX MIN																																
WAKE WSO AP	MAX MIN	82 72	79 67	82 72	83 72	84 71	85 73	83 74	83 73	84 73	84 73	83 72	84 70	84 70	83 72	84 69	84 73	83 70	83 70	82 70	83 73	82 72	81 69	83 72	83 72	83 70	84 73	84 73	84 74	84 73	85 75	83.2 71.9	
• • •																																	
CAROLINE AND MARSHALL ISLANDS																																	
ENIWETAK	MAX MIN	84 80	83 80	82 80	83 79	85 79	84 80	85 79	85 80	85 80	85 80	84 80	82 80	84 80	84 80	83 79	84 80	83 80	84 80	84 80	84 80	83 79	84 80	84 80	84 80	83 79	85 80	85 81	83 80	85 81	85 81	83.9 79.9	
FALALOP I. ULITHI	MAX MIN	88 80	88 84	87 84	88 79	89 79	86 79	86 82	88 82	87 83	89 84	89 80	89 80	88 76	89 80	87 84	85 80	89 80	87 76	87 80	89 80	87 78	88 82	88 83	88 80	89 80	89 80	88 82	88 78	87 83	87.9 80.4		
KAPINGAMARANGI ATOLL	MAX MIN	87 71	90 78	90 76	89 74	89 74	89 76	89 74	88 74	88 74	89 75	88 72	88 76	85 75	88 73	88 72	88 75	88 75	90 76	89 75	89 72	89 74	89 72	86 74	85 72	85 76	86 72	86 74	87 79	88 75	88 74	87.5 74.3	
KOROR WSO	MAX MIN	90 77	88 75	87 76	89 76	87 75	89 77	87 77	88 79	89 77	89 77	89 78	89 79	89 77	89 76	90 77	90 77	91 75	89 75	89 75	89 75	89 74	89 75	89 75	89 75	89 75	89 75	90 76	89 76	88.8 76.1			
KWAJALEIN MISSILE RGN	MAX MIN	88 78	87 75	88 76	88 78	89 79	88 78	87 79	88 79	88 79	88 79	87 78	88 79	89 78	86 77	87 78	89 80	88 77	87 76	88 79	87 77	86 75	87 75	87 75	87 75	87 75	87 75	87 75	87 75	86 75	86.6 77.1		
LELE I. KUSAIE	MAX MIN																																
MAJURO WSO AP	MAX MIN	81 74	85 76	85 76	86 73	86 75	85 77	86 77	86 76	86 76	85 75	86 77	86 77	85 76	86 76	86 76	83 74	86 76	85 76	86 76	86 76	84 73	85 71	85 75	87 76	87 80	86 77	85 74	86 76	86 75	85.3 75.7		
METALANIM	MAX MIN	86 76	88 81	87 75	88 75	85 76	86 77	86 77	85 76	85 76	87 80	87 80	83 79	86 75	86 78	86 78	85 80	85 79	82 77	87 79	86 79	86 73	86 75	84 79	85 79	86 79	86 79	86 79	84 79	86 72	86 72	85.7 77.1	
PONAPE WSO	MAX MIN	88 78	88 78	88 75	90 78	88 75	88 77	88 78	87 79	87 77	88 78	88 78	89 78	89 78	87 76	88 79	86 79	84 79	88 79	85 79	85 73	88 73	85 73	86 73	86 73	87 74	89 77	89 74	90 71	85 75	87 78	87.6 76.4	
SATAWAN ATOLL	MAX MIN																																
TRUK. MOEN I. WSO AP	MAX MIN	87 77	88 78	88 76	88 76	87 79	87 77	86 77	88 80	87 80	87 80	87 79	87 79	87 80	87 78	88 79	87 79	87 80	87 80	81 76	85 74	85 75	86 76	87 74	82 74	87 77	88 76	88 77	88 78	88 76	86 73	86.8 77.3	
WOLEAI ATOLL	MAX MIN																																
YAP WSO AP	MAX MIN	89 75	87 76	89 77	89 77	89 76	88 77	90 77	89 76	89 77	90 75	90 77	90 77	89 77	88 74	88 74	89 78	89 77	89 77	88 75	89 72	89 73	91 76	89 74	89 72	89 72	89 75	89 74	90 77	90 76	90 76	89.1 75.5	

SEE REFERENCE NOTES FOLLOWING STATION INDEX

# EVAPORATION AND WIND

HAWAII AND PACIFIC  
APRIL 1977

STATION	DAY OF MONTH																															TOTAL OR AVG.	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
HAWAII																																	
ISLAND OF KAUAI																																	
LIHUE WSO 1020.1 AP	EVAP	.30	.26	-	.21	.32	.38	.40	.37	.43	.42	.36	.37	.33	.37	.32	.41	.29	.31	-	.47	.41	.25	.34	.22	.24	.13	.37	.40	.30	.43	10.088	
	WIND	95	103	99	106	110	231	284	333	317	268	238	252	284	258	282	316	169	96	89	165	266	183	145	120	76	107	172	195	234	197	5790	
	MAX	87	87	88	80	82	82	81	81	80	85	85	84	83	83	84	84	85	90	87	83	85	85	86	86	86	87	89	84	87	84	84.7	
	MIN	62	60	63	63	60	61	62	61	63	65	66	66	59	65	65	65	66	61	61	65	66	62	65	65	65	64	64	72	70	68	65	64.0
ISLAND OF OAHU																																	
HONOLULU OBSERV 702.2	EVAP	.25	.20	.30	.30	.30	.37	.38	.45	.50	.49	.53	.45	.51	.45	.36	.45	.45	.33	-	.21	.12	.30	.30	.30	.30	.30	.30	.30	.45	.45	10.768	
	WIND	45	38	60	59	68	61	55	68	64	54	58	35	70	61	64	57	35	44	8	27	32	44	28	29	37	34	25	31	36	38	1377	
	MAX	88	92	91	88	90	86	88	90	89	90	92	91	91	90	89	88	92	90	74	88	83	92	92	82	90	91	82	88	94	93	88.9	
	MIN	68	68	68	65	64	63	63	65	65	65	65	67	68	66	65	65	65	64	64	65	65	64	65	65	67	65	67	67	68	69	65	65.7

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# EVAPORATION AND WIND

HAWAII AND PACIFIC  
APRIL 1977

STATION	DAY OF MONTH																															TOTAL OR AVG.
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
PACIFIC																																
■ ■ ■ EAST OF 180TH MERIDIAN																																
JOHNSTON WSO AP	EVAP	.30	.33	.22	.18	.39	.29	.18	.38	.40	.36	.27	.34	.34	.28	.47	.33	.31	.30	.33	.33	.37	.29	.25	.28	.32	.28	.42	.34	.40	.34	9.62
	WIND	122	165	245	323	323	343	295	246	244	291	275	245	307	262	246	189	115	52	96	157	226	233	177	109	128	185	218	209	230	235	6491
	MAX	89	90	84	81	84	86	88	88	86	85	86	88	87	86	88	90	94	94	92	92	90	88	88	96	92	92	92	92	89	90	88.8
	MIN	69	70	69	69	70	70	70	70	71	71	72	72	71	71	70	69	70	70	68	69	69	68	73	72	72	72	71	70	72	71	70.4
■ ■ ■ WESTERN PACIFIC ISL. NORTH OF 12 N																																
GUAM WSMO	EVAP	.31	.29	.36	.33	.38	.28	.19	.14	.25	.39	.15	.25	.34	.38	.41	.40	.30	.37	.25	.29	.30	.37	.33	.41	.08	.33	.33	.28	.27	.27	9.03
	WIND	224	169	182	185	119	155	166	142	157	178	154	164	216	226	186	211	194	163	176	174	165	131	121	114	122	175	139	62	74	184	4828
	MAX	89	89	89	90	91	90	88	90	90	93	88	89	88	90	88	89	90	90	90	89	90	92	91	90	93	91	92	95	92	91	90.2
	MIN	72	71	71	71	70	71	72	70	74	72	72	72	72	72	72	71	72	71	72	71	71	69	71	68	69	70	69	70	74	73	71.2

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# STATION INDEX

HAWAII AND PACIFIC  
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STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES				OBSERVER
								TEMP.	PRECIP.	EVAP.	SPECIAL (SEE NOTES)	
HAWAII												
ISLAND OF KAUAI												
ALEXANDER RESV. 983	0140	02	KOLOA	2	21 57	159 32	1610				C	MCBRYOE SUGAR CO.
ANAHOLA 1114	A 0145	01	KAWAIIHAW	1	22 08	159 18	180		7A		C	LIHUE PLANTATION CO
BRYOESWOOD STA 985	A 0240	02	KOLOA	2	21 56	159 32	720		7A			MC BRYOE SUG CO LTD
EAST LAWA 934	A 0456	02	KOLOA	2	21 55	159 30	440		7A			MC BRYOE SUG CO LTD
ELEELE 927	A 0470	02	KOLOA	2	21 54	159 35	163		6A			MC BRYOE SUG CO LTD
HALAULA 1110	A 0935	01	KAWAIIHAW	1	22 07	159 19	253		7A			LIHUE PLTN CO LTD
HALENANAO 1006	A 1038	02	LIHUE	2	21 58	159 26	490		8A			LIHUE PLANTATION CO
HANAIEI TUNNEL 1053	A 1170	01	KAWAIIHAW	1	22 05	159 28	1218				5	LIHUE PLTN CO LTD
HUKIPO 945	2161	03	WAI MEA	3	21 59	159 41	800		8A			KEKAHA SUGAR CO LTD
ILIILILUA INTAKE 1050	A 2222	02	LIHUE	2	22 02	159 28	1050		VAR			LIHUE PLTN CO LTD
INTAKE WAINIHA PC 1086A	2227	01	HANAIEI	1	22 09	159 34	690		W1			MC BRYOE SUG CO LTD
KANALOHULUHULU 1075	3099	03	WAI MEA	3	22 08	159 40	3600	7A	7A		C	STATE DIVISION OF PARKS
KANEHA RESERVOIR 1092	A 3104	01	KAWAIIHOU	1	22 08	159 23	830		7A			LIHUE PLANTATION
KAPAA STABLES 1104	A 3159	01	KAWAIIHAW	1	22 05	159 20	175		7A		C	LIHUE PLTN CO LTD
KEALIA 1112	A 3982	01	KAWAIIHAW	1	22 06	159 19	9		7A			LIHUE PLTN CO LTD
KEKAHA 944	4272	03	WAI MEA	3	21 58	159 43	9		8A		C	KEKAHA SUGAR CO LTD
KILAUEA 1134	A 4561	01	HANAIEI	1	22 13	159 25	320		7A		C	NICK RAPOZO
KILAUEA POINT 1133	4568	01	HANAIEI	1	22 14	159 24	180	8A	8A			MELVALEIGH SEILLEMAYER
KOLO 1033	4735	03	WAI MEA	3	22 04	159 46	36		7A			KEKAHA SUGAR CO LTD
KOLOA 936	A 4742	02	KOLOA	2	21 55	159 28	240		8A			MCBRYOE SUGAR CO
KOLOA LN (MAK) 940.1	4748	01	KAUAI	2	21 52	159 27	52	7A	7A			AUSCG LORAN STATION
KOLOA MAUKA 994	A 4750	02	KOLOA	2	21 57	159 29	640		7A			MCBRYOE SUGAR COMPANY
KUKUIULA 935	A 4950	02	KOLOA	2	21 54	159 30	100		6A			MC BRYOE SUG CO LTD
LIHUE VARIETY ST 10621A	5560	02	LIHUE	2	22 01	159 23	380		7A		C	LIHUE PLANTATION CO LTD
LIHUE 1020	A 5575	02	LIHUE	2	21 59	159 22	207		7A			LIHUE PLTN CO LTD
LIHUE WSO 1020.1 AP	R 5580	02	LIHUE	2	21 59	159 21	103	M10	M10	M10C	J	NATL WEATHER SERVICE
MAKAWELI 965	A 5864	03	WAI MEA	3	21 55	159 38	140		7A			OLOKELE SUGAR CO
MANA 1026	6082	03	WAI MEA	3	22 02	159 46	20	8A	8A			KEKAHA SUGAR CO LTD
MOHIHI UPR CROSS 1083	A 6433	01	WAI MEA	3	22 07	159 36	3500		M10		5	U S GEO SURVEY
MOLOAA 1145	A 6529	01	KAWAIIHAW	1	22 11	159 20	330		7A			THEODORE JAVELLANA JR
MOUNT WAIKALELE 1047	R 6565	03	WAI MEA	2	22 04	159 30	5148		M10		5	U. S. GEO. SURVEY
NIU RIDGE 1035	6850	03	WAI MEA	3	22 02	159 44	1250	6A	6A			KEKAHA SUGAR CO LTD
N WAILUA DITCH 1051	A 6888	02	LIHUE	2	22 04	159 28	1110		7A			LIHUE PLTN CO LTD
N WAILUA RIVER 1055	A 6893	02	KIHUE	2	22 04	159 26	650				5	LIHUE PLTN CO LTD
PH WAINIHA 1115	8155	01	HANAIEI	1	22 12	159 34	101		6A		C	MC BRYOE SUG CO LTD
PRINCEVILLE RANCH 1117	8165	01	HANAIEI	1	22 13	159 29	295		9A		C	PRINCEVILLE RANCH INC
PUEHU RIDGE 1040	8205	03	WAI MEA	3	22 01	159 42	1660		8A			KEKAHA SUGAR CO LTD
PUHI 1013	A 8217	02	LIHUE	2	21 58	159 24	329		8A			LIHUE PLANTATION CO
STABLE CAMP 1055.1	8694	02	LIHUE	2	22 04	159 27	740					LIHUE PLANTATION CO LTD
WAIKAWA 930	A 8941	02	KOLOA	2	21 54	159 34	215		7A		C	MC BRYOE SUG CO LTD
WAIKAWA LOWER 1054	8958	02	LIHUE	2	22 01	159 27	565	6A	6A			LIHUE PLTN CO LTD
WAIKAWA UPPER 1052	8966	02	LIHUE	2	22 01	159 28	780		6A			LIHUE PLTN CO LTD
WAIKAWA 943	9253	03	WAI MEA	3	21 59	159 43	10		8A			KEKAHA SUGAR CO LTD
WAILUA KAI 1065	A 9467	02	LIHUE	2	22 02	159 21	50		7A			LIHUE PLANTATION
WAI MEA 947	9629	03	WAI MEA	3	21 58	159 41	20		8A			KEKAHA SUGAR CO.
WEST LAWA 931	A 9955	02	KOLOA	2	21 54	159 31	210		6A			MC BRYOE SUG CO LTD
ISLAND OF OAHU												
AHUI MANU LOOP 839.12	0055	01	KOOLAUPOKO	1	21 26	157 51	320				C	ODN MITCHELL
ALOHA STADIUM-HALAWA	0172	03	OAHU	3	21 23	157 56	40	8A	8A			ALOHA STADIUM
BERETANIA PUMPING STA	0211	02	HONOLULU	2	21 19	157 51	20		9A			BOARD OF WTR SUPPLY
8 Y U LAIE 903.1	0240	01	KOOLAUPOKO	1	21 39	157 56	20	12M	12M			8 Y U-HAWAII CAMPUS
CAMPBELL INO PK 702.5	0248	02	OAHU	3	21 19	158 07	10		8A			CHEVRON U S A INC
CAMP 84 807	A 0300	03	EWA	3	21 26	158 04	760		6A		C	OEL MONTE CORPORATION
COCONUT ISLAND 840.1	0350	01	KOOLAUPOKO	1	21 26	157 47	15		8A			H INST MARINE BIOLOGY
OWSWETT HIGHLDS 780.8	0438	02	HONOLULU	2	21 21	157 50	565				C	J.L. BANNING
EWA PLANTATION 741	0507	03	EWA	3	21 21	158 02	5	9A	7A			OAHU SUGAR COMPANY
HALAWA SHAFT 771.2	0964	02	HONOLULU	2	21 23	157 54	170				C	BOARD OF WATER SUPPLY
HELEMANO INTAKE 881	A 1384	05	WAIKALUA	5	21 33	158 00	1274		W1		C	WAIKALUA SUGAR CO. INC.
HOKULOA 725.2	A 1540	03	EWA	3	21 24	158 06	2220				C	H. V. VON HOLT
HONOLULU OBSERV 702.2	1918	03	EWA	3	21 19	158 00	5		9A	9A		NATIONAL WEATHER SERV
HONOLULU WSO 703 AP	A 1919	02	HONOLULU	2	21 20	157 55	7	M10	M10		C	NATL WEATHER SERVICE
KAA LAKEI 724.6	2269	02	HONOLULU	2	21 18	157 43	10				C	MRS. MILLIE ZAPATA
KAENA POINT 841.3	2410	04	WAIKALUA	4	21 34	158 15	1240		9A			U S AIR FORCE
KAHANA 883	A 2462	01	KOOLAUPOKO	1	21 31	157 54	800		W1			WAIKOLE WTR CO LTD
KAHUKU 912	A 2570	01	KOOLAUPOKO	1	21 42	157 59	15				C	KIULIMA HOTEL

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## STATION INDEX

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STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES				OBSERVER
								TEMP.	PRECIP.	EVAP.	SPECIAL (SEE NOTES)	
ISLAND OF OAHU												
KAILUA FIRE STA 791.3	2683	01	KOOLAUPOKO	1	21 24	157 45	10		8A		C	KAILUA FIRE STATION
KALAMA VALLEY 724-13	2842	02	OAHU	2	21 18	157 41	75				C	GRADEN HARGER
KALIHI RES SITE 777	R 2950	02	HONOLULU	2	21 23	157 50	910		M10			BOARD OF WTR SUPPLY
KANEOME MAUKA 781	3113	01	KOOLAUPOKO	1	21 25	157 49	325	7A	7A			STATE HOSPITAL
KAPALAMA 773	A 3268	02	HONOLULU	2	21 21	157 52	614		8A			KAMEHAMEHA SCHOOLS
KAWAIHAPAI 841	A 3734	05	WAIALUA	5	21 35	158 11	40		7A			WAIALUA SUGAR CO. INC.
KEMOO CAMP 8 855	A 4318	05	WAIALUA	5	21 33	158 05	725		7A			WAIALUA SUGAR CO. INC.
KOOLAU DAM 833	A 4766	05	WAIHAWA	5	21 30	157 58	1160		8A			C & F OFFICER HEOG
LULUKU 781.7	5655	01	KOOLAUPOKO	1	21 24	157 49	240				C	NATIONAL WEATHER SERV
MAKAHA KAI 796.1	A 5766	04	WAIANAE	4	21 28	158 13	15		7A			HAROLD ROBERTS
MAKAHA PUMP 800.2	A 5782	04	OAHU	4	21 29	158 12	400		8A		C	CAPITAL INVESTMENT CO.
MAKAKILO 730.1	5789	03	OAHU	3	21 21	158 06	300		6A			NEAL ADAMS
MANOA 712.1	6122	02	HONOLULU	2	21 19	157 49	220		7A			MRS. JOHN H. BEAUMONT
MANOA LYON ARBORETUM	6128	02	OAHU	2	21 20	157 48	500	8A	8A			LYON ARBORETUM
MANOA TUNNEL 2 716	R 6130	02	HONOLULU	2	21 20	157 48	650		M10			BOARD OF WTR SUPPLY
MAUNAWILI 787.1	6222	01	KOOLAUPOKO	1	21 21	157 46	395				C	EXP. STA. H.S.P.A.
MOANALUA 770	6395	02	HONOLULU	2	21 21	157 54	20		9A			JOHN A ROXBURGH
MOMILANI 835.1	6547	03	OAHU	3	21 25	157 58	325				C	CHESTER T KAINUMA
MOUNT KAALA 844	6553	04	WAIANAE	4	21 31	158 09	4015				C	FEDERAL AVIATION ADM
NUUANU RES 4 783	6928	02	HONOLULU	2	21 21	157 49	1048		M10			BOARD OF WTR SUPPLY
NUUANU RESERV 5 775	A 6933	02	HONOLULU	2	21 21	157 50	410		WI			BOARD OF WTR SUPPLY
OPAEULA 870	A 7150	05	WAIALUA	5	21 34	158 02	1060	7A	7A		C	WAIALUA SUGAR CO. INC.
PAIKO OR 723.4	7540	02	HONOLULU	2	21 17	157 44	10		7A			O L GRUBB
PALI GOLF COURSE 788.1	7656	01	OAHU	1	21 23	157 47	480		10A			CC DEPT PK5 RECREATION
PALOLO VALLEY 718	R 7664	02	HONOLULU	2	21 20	157 46	995		M10			BOARD OF WTR SUPPLY
PAUOA FLATS 784	R 7810	02	HONOLULU	2	21 21	157 48	1640		M10			BOARD OF WTR SUPPLY
PUNALUU PUMP 905.2	8314	01	KOOLAUPOKO	1	21 35	157 54	20				C	MRS DAVID DELAO
PUNCHBOWL CRATER 709	A 8316	02	HONOLULU	2	21 19	157 51	360		8A			NAT MEM CEMETERY
PUPUKEA HEIGHTS 896.4	8342	01	WAIALUA	1	21 39	158 02	900				C	JACK N. WHEELER
PUU MANAWAHUA 725.6	8500	03	OAHU	3	21 23	158 05	2080		8A			HUGH HAMILTON
SEA LIFE PARK 724.14	8665	01	OAHU	1	21 19	157 40	40				C	SEA LIFE PARK
TANTALUS 2 780.5	8738	02	HONOLULU	2	21 20	157 50	1325		7A			R. E. WHITE
UNIV OF HAWAII 713	A 8815	02	HONOLULU	2	21 18	157 49	79		8A			DEPT OF GEOSCIENCE
UPPER WAIHAWA 874.3	8838	05	OAHU	5	21 31	158 01	1115		6A			W B RUTHERFORD
WAIHAWA DAM 863	A 8945	05	WAIHAWA	5	21 30	158 03	854		7A		C	WAIALUA SUGAR CO. INC.
WAIHOLE 837	A 8964	01	KOOLAUPOKO	1	21 28	157 53	745		8A		C	WAIHOLE WTR CO LTO
WAIALAE KAHALA 715	9185	02	HONOLULU	2	21 17	157 47	40		7A			SPENCER TINKER
WAIALEE 896.3	9190	01	KOOLAUPOKO	1	21 41	158 02	33	8A	8A			WAIALEE LIVESK RES FARM
WAIALUA 847	A 9195	05	WAIALUA	5	21 35	158 07	32	7A	7A		C	WAIALUA SUGAR CO. INC.
WAIANAE 798.2	A 9231	04	WAIANAE	4	21 27	158 11	10		7A			BEN MAYES
WAIANAE KAWIWI 801.1	9234	04	OAHU	4	21 28	158 11	40				C	MOUNTAIN VIEW DAIRY
WAIHAWA 836	A 9261	03	EWA	3	21 28	157 56	800		M0			WAIHOLE WTR CO LTO
WAIKANE 885	A 9340	01	KOOLAUPOKO	1	21 30	157 53	760		WI			WAIHOLE WTR CO LTO
WAIKIKI 717.2	9397	02	HONOLULU	2	21 16	157 49	10	8A	8A			HONOLULU ZOO
WAILUPE VLY SCH 723.6	9500	02	HONOLULU	2	21 18	157 45	180				C	WAILUPE VALLEY SCHOOL
WAIMANALO EXP FARM	9523	01	KOOLAUPOKO	1	21 20	157 43	60	7A	7A			WAIMANALO EXP FARM
WAIMANALO NONOKI 795.2	9534	01	OAHU	1	21 20	157 43	120				C	WAIMANALO EXP FARM
WAIMER 892	A 9593	05	WAIALUA	5	21 38	158 04	330		7A		C	WAIALUA SUGAR CO. INC.
WAIPIHU 750	A 9738	03	EWA	3	21 23	158 01	59		8A			WAIHOLE WATER COMPANY
WILHELMINA RISE 721	R 9980	02	HONOLULU	2	21 18	157 47	1100		M10			BOARD OF WTR SUPPLY
ISLAND OF MOLOKAI												
KALAPAPA 563	A 2896	01	MOLOKAI	1	21 12	156 59	30		8A			KALAPAPA SETTLEMENT
KAUNAKAKAI 536	3541	01	MOLOKAI	1	21 06	157 01	12		7A			MOLOKAI RANCH LTO
KAUNAKAKAI MAUKA 536.5	3547	01	MOLOKAI	1	21 06	157 01	70				C	MOLOKAI GENERAL HOSP.
KEONELELE PENS 551	A 4394	01	MOLOKAI	1	21 12	157 12	560		VAR			MOLOKAI RANCH, LTD.
KUALAPUU 534	A 4778	01	MOLOKAI	1	21 09	157 02	825		7A		C	DEL MONTE CORPORATION
MAUNALO 511	A 6190	01	MOLOKAI	1	21 08	157 13	1070		9A		C	MOLOKAI RANCH COMPANY
MOLOKAI AP 524	6534	01	MOLOKAI	1	21 09	157 06	450	8A	8A			ALOHA AIRLINES
PUU O HOKU RANCH 542.1	8549	01	MOLOKAI	1	21 09	156 44	700		6A		C	PUU O HOKU RANCH
WAIKOLU 540	A 9404	01	MOLOKAI	1	21 08	156 55	3550		WI			MOLOKAI RANCH COMPANY
ISLAND OF LANAI												
KANEPUU 690	A 3130	01	LAHAINA	1	20 52	157 00	1650		WI			U S O A
KAUMALAPAU HARBOUR 658	3461	01	LAHAINA	1	20 47	157 00	30		8A		C	OOLE COMPANY
LANAI AIRPORT 656	5275	01	LAHAINA	1	20 48	156 57	1300	8A	8A			HAWAIIAN AIR
LANAI CITY 672	A 5286	01	LAHAINA	1	20 50	156 55	1620	7A	7A		C	OOLE COMPANY
LANAIHALE 684	A 5301	01	LAHAINA	1	20 49	156 53	3370		WI			U S O A

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								TEMP.	PRECIP.	EVAP.	SPECIAL (SEE NOTES)	
ISLAND OF LANAI												
MAHANA 694	A 5704	01	LAHAINA	1	20 52	156 55	1430		MO			U S D A
MALAEUA 676	A 6012	01	LAHAINA	1	20 46	156 55	1150		WI			U S O A
WAIKAEKUA 685	A 9021	01	LAHAINA	1	20 47	156 52	2000		WM			KOELE COMPANY
ISLAND OF MAUI												
AUWAHI 252	A 0175	02	HANA	2	20 37	156 20	2060		VAR			ULUPALAKUA RANCH
HAELAAU 477	0790	04	LAHAINA	4	20 57	156 36	2980				5	MAUI LAND-PINEAPPLE CO
HALEAKALA 8 E 5 434	A 0995	01	MAKAWAO	1	20 51	156 18	2100		7A			U OF H AGRIC EXP STA
HALEAKALA RANCH 432	A 0999	01	MAKAWAO	1	20 50	156 19	1850		8A			HALEAKALA RANCH CO
HALEAKALA RS 338	1004	02	MAKAWAO	2	20 46	156 15	7030	8A	8A			HALEAKALA NAT PARK
HALIIMAILE 423	A 1075	01	MAKAWAO	1	20 52	156 21	1070		3A			MAUI LAND-PINEAPPLE CO
HAMAKUPOKO 485	1086	01	MAKAWAO	1	20 55	156 21	320		5A			HAWAIIAN COM & SUG CO
HANA 354	A 1122	01	HANA	1	20 45	155 59	120		8A		C	HARRY HASEGAWA
HANA AIRPORT 355	1125	01	HANA	1	20 48	156 01	61	8A	8A			ROYAL HAWAIIAN AIRLINES
HOLUA CABIN 259.5	A 1552	02	MAKAWAO	2	20 45	156 13	6930		MO			HALEAKALA NATL PARK RGS
HONOKOHU 480	A 1882	04	LAHAINA	4	20 58	156 36	870		MO			MAUI LAND-PINEAPPLE CO
HONOKOHU 483	A 1887	04	LAHAINA	4	21 00	156 39	135		6A			MAUI LAND-PINEAPPLE CO
HONOLUA FLD 49 494	1914	04	LAHAINA	4	21 01	156 38	125				5	MAUI LAND-PINEAPPLE CO
HONOMANU GULCH 341	A 1935	01	MAKAWAO	1	20 47	156 14	6280		MO			HALEAKALA RANCH CO
IAO NEEDLE 387.2	2208	03	WAILUKU	3	20 53	156 33	1080				C	STATE DIVISION OF PARKS
KAAHAPALI AP 453.1	2307	04	LAHAINA	4	20 56	156 42	8	8A	8A			AMFAC PROPERTIES INC
KAHOMA INTAKE 374	A 2552	04	LAHAINA	4	20 54	156 38	2000		WI			PIONEER MILL CO LTD
KAHULUI WSO 398 AP	R 2572	03	WAILUKU	3	20 54	156 26	48	MID	MID		C J	NATL WEATHER SERVICE
KAILIILI 436	A 2630	01	MAKAWAO	1	20 51	156 16	2520		MO			E MAUI IRR CO LTD
KAILUA 446	2679	01	MAKAWAO	1	20 54	156 13	700	7A	7A			E MAUI IRR CO LTD
KAUAKULA INTAKE 375	A 3433	04	LAHAINA	4	20 53	156 38	1585		WI			PIONEER MILL CO LTD
KAUPO RANCH HOUSE 259	3576	02	HANA	2	20 39	156 08	1020				C	KAUPO RANCH
KEAHUA 410	3910	03	MAKAWAO	3	20 52	156 23	480		5A			HAWAIIAN COM & SUG CO
KEANAE 346	A 4091	01	HANA	1	20 50	156 10	980		MO			E MAUI IRR CO LTD
KEAWAKAPU BEACH 260.2	4193	02	MAKAWAO	2	20 42	156 27	20	8A	8A		C	ALLEN L CORELL
KIHEI 311	4489	03	WAILUKU	3	20 47	156 27	90		7A			HAWAIIAN COM & SUG CO
KIPAHULU 258	4634	01	HANA	1	20 39	156 04	260		7A			HANA RANCH-KIPAHULU SEC
KUIAHA EXP STN	4840	01	MAUI	1	20 54	156 18	920				C	U H AGRICULTURE EXP STN
KUKUI 380	4887	04	LAHAINA	4	20 54	156 35	5788				5	MAUI LAND-PINEAPPLE CO
KULA HEIGHTS 323.2	5003	02	MAKAWAO	2	20 47	156 19	2520				C	KENNETH WILLEY
KULA SANATORIUM 267	5006	02	MAKAWAO	2	20 42	156 22	3004	7A	7A			KULA SANATORIUM
LAHAINA 361	5177	04	LAHAINA	4	20 53	156 41	45	7A	7A		C	PIONEER MILL CO LTD
LAUNIUPOKO INTAKE 376	A 5404	04	LAHAINA	4	20 51	156 37	1280		WI			PIONEER MILL CO LTD
LAUNIUPOKO VILLAGE 372A	5408	04	LAHAINA	4	20 51	156 39	220		7A			PIONEER MILL CO LTD
LUPI UPPER 442	A 5665	01	MAKAWAO	1	20 53	156 15	1240		MO			E MAUI IRR CO LTD
MAHINAHINA 466	A 5715	04	LAHAINA	4	20 57	156 40	715		7A			PIONEER MILL CO LTD
MOKUPEA 475	6521	04	LAHAINA	4	20 59	156 37	1290				5	MAUI LAND-PINEAPPLE CO
NAKALELE FIELD 60 497	A 6645	04	LAHAINA	4	21 02	156 36	340		VAR			MAUI LAND-PINEAPPLE CO
OLINDA 332	A 7040	01	MAKAWAO	1	20 48	156 17	4127		VAR			EAST MAUI IRRIGATION CO
OWALU 296	7059	04	LAHAINA	4	20 49	156 38	7		7A			PIONEER MILL CO LTD
PAAKEA 350	7194	01	HANA	1	20 49	156 07	1260		VAR		C	E MAUI IRR CO LTD
PAIA 406	7566	01	WAILUKU	1	20 55	156 23	170		6A			HAWAIIAN COM & SUG CO
PANILEIHULU 259.2	A 7674	02	HANA	2	20 41	156 08	3570		MO			KAUPO RANCH CO.
PEAHI 488.6	7952	01	MAUI	1	20 54	156 17	830		9A			BERNARD RUPLINGER
POHAKEA BRIDGE 307.2	A 8060	03	WAILUKU	3	20 49	156 31	167		6A			WAILUKU SUGAR CO
POLIPOLI SPRINGS 267.2A	8070	02	MAKAWAO	2	20 41	156 20	6150		VAR			STATE DIV OF FORESTRY
PUOHOKAMOA 2 343	A 8336	01	HANA	1	20 50	156 13	2980		MO			E MAUI IRR CO LTD
PUUNENE 396	8543	03	WAILUKU	3	20 53	156 27	60		7A			HAWAIIAN COM & SUG CO
PUU PAKI 352	A 8553	01	HANA	1	20 46	156 03	2160				5	EAST MAUI IRRIGATION CO
SPRECKELSVILLE 400.2	8688	03	WAILUKU	3	20 54	156 25	85		8A			HAWAIIAN COM & SUG CO
TWIN GATES 261.3	A 8742	03	MAKAWAO	3	20 46	156 23	1310		VAR			KAONOULU RANCH
UKULELE 333	A 8744	01	MAKAWAO	1	20 48	156 15	5230		MO			HALEAKALA RANCH CO
UKUMEHAME 301	A 8750	04	LAHAINA	4	20 48	156 35	75		7A			PIONEER MILL CO LTD
ULUPALAKUA RANCH 250	8760	02	MAKAWAO	2	20 39	156 24	1900		8A		C	ULUPALAKUA RCH CO LTD
WAHIKULI 364	A 8955	04	LAHAINA	4	20 54	156 40	580		8A			PIONEER MILL CO LTD
WAIIEHU CAMP 484	A 9275	03	WAILUKU	3	20 55	156 31	320		6A			WAILUKU SUGAR CO
WAIHEE VALLEY 482	A 9315	04	WAILUKU	4	20 57	156 32	300		6A			WAILUKU SUGAR CO
WAIKAMOI 449	A 9332	01	HANA	1	20 52	156 12	1200		MO			E MAUI IRR CO LTD
WAIKAMOI DAM 336	A 9335	01	MAKAWAO	1	20 49	156 14	4320		VAR		C	EAST MAUI IRRIGATION CO
WAIKAPU 390	A 9376	03	WAILUKU	3	20 51	156 31	370		6A			WAILUKU SUGAR CO
WAILUA IKI 348	A 9460	01	HANA	1	20 48	156 09	2630				5	EAST MAUI IRRIGATION CO
WAILUKU 386	A 9484	03	WAILUKU	3	20 54	156 30	180	7A	7A			WAILUKU SUGAR COMPANY

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								TEMP.	PRECIP.	EVAP.	SPECIAL (SEE NOTES)	
ISLAND OF MAUI												
WAIOPAI RANCH 256	A 9765	02	HANA	2	20 38	156 12	220		0C			HALEKALA RANCH CO
ISLAND OF HAWAII												
AHUA UMI 75	A 0040	05	N KONA	5	19 38	155 47	5220		MO			W.H. GREENWELL RANCH
CITY OF REFUGE 27.4	0344	04	S KONA	4	19 25	155 55	15		9A			NAT HISTORICAL PARK
HAINA 214	0840	01	HAMAKUA	1	20 06	155 28	461		8A			HONOKAA SUGAR CO
MAKALAU 142	0905	02	S HILO	2	19 54	155 08	105		7A			MAUNA KEA SUGAR CO
HALEMAUMAU 52	A 1033	03	KAU	3	19 24	155 17	3648		MO			HAWAII NAT PARK
HALEPOHAKU 111	A 1065	02	HAMAKUA	2	19 46	155 28	9220		3P			MAUNA KEA OBSERVATORY
HAWAII VOLCNS NP HO 54	1303	02	KAU	2	19 26	155 16	3971	8A	8A		C	HA VOLCANOES NAT PK HOS
HAWI 168	A 1339	01	N KOHALA	1	20 14	155 50	580		6A			K L 80ND
HILO COUNTRY CLUB 86.6	1487	02	HAWAII	2	19 41	155 10	1600		7A		C	REX WILLS II
HILO WSO 87 AP	R 1492	02	S HILO	2	19 43	155 04	27	M10	M10		C	NATL WEATHER SERVICE
HOLUALOA 70	A 1557	04	N KONA	4	19 38	155 55	3220		MO			STATE DIV OF FORESTRY
HOLUALOA BEACH 68	A 1562	04	N KONA	4	19 37	155 59	14		7A			CAPT COOK CATTLE CO
HONANUAU 27	1665	04	S KONA	4	19 27	155 53	1089		7A			SHIGETO L TANAKA
HONOHINA 137	1701	02	N HILO	2	19 56	155 09	300		7A			MAUNA KEA SUGAR CO
HONOMU MAUKA 138	1960	02	S HILO	2	19 51	155 09	1100		7A		C	MAUNA KEA SUGAR CO
HONUAULA 71	A 2047	04	N KONA	4	19 40	155 53	6250		MO			STATE DIV OF FORESTRY
HUALALAI 72	A 2151	04	N KONA	4	19 42	155 52	8190		MO			STATE DIV OF FORESTRY
HUEHUE 92.1	A 2156	04	N KONA	4	19 45	155 59	1960		6A			HUEHUE RANCH
KAAALA IKI 12	A 2249	03	KAU	3	19 08	155 34	1340					KAU SUGAR COMPANY, INC
KAAWALO 29	A 2327	04	SOUTH KONA	4	19 30	155 55	1340		8A			CAPT COOK INVESTMENT CO
KAHIAWAI MAUKA 3.8	2512	03	KAU	3	19 08	155 46	4120				C	RUSSELL P. SMITH
KAHUA RANCH ROTRS	2600	01	HAWAII	1	20 08	155 48	3240				C	KAHUA RANCH COMPANY
KAINALIU 73.2	2751	04	N KONA	4	19 32	155 56	1500	7A	7A			KONA EXPERIMENT STA
KALAOA 69.22	2887	04	HAWAII	4	19 44	155 59	2000		8A			FLOYD W MC COY
KALAPANA 1 67.8	2894	02	S HILO	2	19 20	155 02	10		VAR			HAWAII VOLCANOES NAT PK
KAMROA 2 5	A 3048	03	KAU	3	19 02	155 40	1375		WI			PARKER RCH-KAPAPALA DIV
KAMUELA 192.2	3077	01	S KOHALA	1	20 01	155 40	2670	6A	6A			PARKER RANCH
KAPAPALA RANCH 36	A 3300	03	KAU	3	19 17	155 27	2140		6A			PARKER RCH-KAPAPALA DIV
KAPOHO BEACH 93.11	3368	02	HAWAII	1	19 30	154 49	10	8A	8A			H E MC NICHOLS
KAPOHO LANDING 93.5	A 3369	02	PUNA	2	19 30	154 52	290		VAR			DEPT OF PUBLIC WORKS
KAWAINUI LOWER 193	A 3770	01	HAMAKUA	1	20 05	155 39	1080		WI			HONOKAA SUGAR CO
KEAAU 92	3872	02	PUNA	2	19 38	155 02	285	8A	8A			PUNA SUGAR CO
KEAUA CAMP 22.1	3925	03	KAU	3	19 14	155 29	1700				C	KAU SUGAR COMPANY, INC
KEALAKEUA 2 28.7	3980	04	S KONA	4	19 30	155 55	1450	8A	8A			MRS LILAH MEIER
KEANAKOLU CAMP 124.2	4098	02	HAMAKUA	2	19 55	155 21	5280				C	STATE DIV OF FORESTRY
KIOLAKAA A & F 6	A 4625	03	KAU	3	19 04	155 38	1925		MO			STATE DIV OF FORESTRY
KIPA 89.2	A 4632	02	S HILO	2	19 44	155 09	1490		WI			MAUNA KEA SUGAR CO.
KOHALA MISSION 175.1	4680	01	N KOHALA	1	20 14	155 48	537	7A	7A			K. LYMAN 80ND
KOIAWE LOWER 196	A 4685	01	HAMAKUA	1	20 05	155 38	720		WI			HONOKAA SUGAR CO
KONA (KAILUA) 68.3	A 4764	04	N KONA	4	19 39	156 00	30	8A	8A		C	STANDARD OIL CO OF CAL
KONA VILLAGE 93.8	4765	04	N KONA	4	19 50	155 59	20		8A			KONA VILLAGE RESORT HTL
KUKAIAU 222	4815	01	HAMAKUA	1	20 02	155 21	840		6A			LAUPAHOEHOE SUGAR CO
KUKUIHALE HIC 199	4928	01	HAMAKUA	1	20 07	155 35	980		6A			HONOKAA SUGAR CO
KUKUIHALE MILL 206	4938	01	HAMAKUA	1	20 08	155 34	300		6A			HONOKAA SUGAR CO
KULANI CAMP 79	5011	02	S HILO	2	19 33	155 18	5170	8A	8A			ST DEPT OF SOCIAL SER
KULANI MAUKA 76	A 5018	05	N HILO	5	19 35	155 27	8300		VAR			MAUNA LOA OBS.
KULANI SCHOOL SITE 78	A 5021	02	S HILO	2	19 35	155 20	5735		WI			ST DEPT OF SOCIAL SER
LALAMILO FLO OFF 191.1	5260	01	S KOHALA	1	20 01	155 41	2615				C	STATE DEPT OF L&N RES
LANTHAU 68.2	5330	04	N KONA	4	19 40	155 58	1530		7A			KONA EXPERIMENT STATION
LAVA TREE PARK 66.1	5460	02	PUNA	2	19 29	154 54	650				C	STATE DIV OF PARKS
MAKAHALAU 103	5761	02	HAWAII	1	19 59	155 33	3820		6A			PARKER RANCH
MANUKA 2	A 6134	03	KAU	3	19 07	155 50	1760		WI			STATE DIVISION OF PARKS
MAUNA KEA OBS 111.2	6183	02	HAWAII	2	19 49	155 28	3770		7P			MAUNA KEA OBSERVATORY
MAUNA LOA SLOPE OBS	6198	05	HAMAKUA	5	19 32	155 35	1150	9A	9A			MAUNA LOA OBSERVATORY
MIDDLE HOLUALOA 68.1	A 6268	04	N KONA	4	19 37	155 58	500		7A			CAPT COOK CATTLE CO
MIDDLE PEN 147.1	A 6270	01	N KOHALA	1	20 06	155 50	1380		VAR			KAHUA RANCH
MOAULA 18	A 6407	03	KAU	3	19 11	155 30	600					PARKER RCH-KAPAPALA DIV
MOUNTAIN VIEW 91	6552	02	PUNA	2	19 33	155 07	1530	6A	6A			PUNA SUGAR CO
NAALEHU 14	A 6588	03	KAU	3	19 04	155 35	800	8A	8A			KAU SUGAR COMPANY
NAPOOPOO 28	A 6697	04	S KONA	4	19 28	155 55	395		7A			KONA EXPERIMENT STA
OOKALA 223	7131	02	N HILO	2	20 01	155 17	430	7A	7A			LAUPAHOEHOE SUGAR CO
OPIHIHALE 2 24.1	7166	04	S KONA	4	19 16	155 53	1270	7A	7A			MRS LORMA TRUMAN
ORCHIO LAND EST 91.5	A 7185	02	PUNA	2	19 34	155 00	445		VAR			BOARD OF WATER SUPPLY
PAUHAU 217	7204	01	HAMAKUA	1	20 05	155 26	415		8A		C	HONOKAA SUGAR COMPANY

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ISLAND OF HAWAII												
PAAUULO 221		7312	01 HAMAKUA	1	20 03	155 22	800		7A			LAUPAHOEHOE SUGAR CO KAU SUGAR COMPANY, INC PUAN SUGAR COMPANY PARKER RCH-KAPAPALA DIV MAUNA KEA SUGAR CO MAUNA KEA SUGAR CO STATE DIV OF FORESTRY STATE DIVISION OF PARKS SUPT PUU HEIAU-NHS W.H. GREENWELL RANCH
PAHALA 21	A	7421	03 KAU	3	19 12	155 29	870	8A	6A			
PAHOA 65		7457	02 PUNA	2	19 30	154 57	670		6A			
PAKAO 37	A	7643	03 KAU	3	19 22	155 28	5000		MO			
PAPAIKOU 144.1		7711	02 S HILO	2	19 47	155 06	260		7A			
PAPAIKOU MAUKA 140.1		7721	02 S HILO	2	19 47	155 08	1270		7A			
PIIHONUA 89	A	8051	02 S HILO	2	19 44	155 10	1730		MO			
POHAKULOA 107	A	8063	02 HAMAKUA	2	19 45	155 32	6511		WI		C	
PUUKOHOLA HEIAU 98.1		8422	05 HAWAII	5	20 02	155 50	140	8A	8A			
PUU LEHUA 73	A	8460	04 N KONA	4	19 34	155 49	4880		MO			
PUU WAAWAA 94.1	A	8555	05 N KONA	5	19 47	155 51	2520		7A		C	PUU WAAWAA RANCH CO BOARD OF WTR SUPPLY MRS CAROLYN CARLSON PARKER RCH-KAPAPALA DIV U S COAST GUARD SHINICHI KANESHIRO BOISE CASCADES WA CONST
SAOOLE ROAD 1 84	A	8590	02 S HILO	2	19 42	155 12	2340		WM			
SOUTH KONA 2.31		8650	03 HAWAII	3	19 06	155 45	2650	8A	8A			
SOUTH POINT CORRAL 3	A	8675	03 KAU	3	18 57	155 41	500		WI			
UPOLU POINT USCG 159.2		8830	01 N KOHALA	1	20 15	155 53	61	8A	8A			
WAIKAKA SCO 88.2		9025	02 S HILO	2	19 40	155 08	1050		7A			
WAIKALOA-BOIS CAS 95.8		9142	04 HAWAII	5	19 56	155 48	900		8A			

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								TEMP.	PRECIP.	EVAP.	SPECIAL (SEE NOTES)	
PACIFIC												
EAST OF 180TH MERIDIAN												
CANTON ISLAND	4101	02	PHOENIX IS		2 46N	171 43W	8	9A	9A			ITT/FEDERAL ELEC CORP
FAGA ALU RESERVOIR	4135	03	AMER SAMOA		14 18S	170 42W	820		8A			PUBLIC WORKS
FALEASAO VILLAGE	4248	03	TA'U'MAN		14 14S	169 31W	16		8A			SOLOMULI MALU'IA
JOHNSTON WSO AP	R 4320	01	LINE ISLANDS		16 44N	169 31W	7	MID	MID	7A	J	NATL WEATHER SERVICE
LEONE	4397	03	TUTUILA		14 21S	170 47W	20	6P	6P			ST THERESA SCHOOL
FRENCH FRIGATE SHOALS	4401	07			23 52N	166 17W	6	8P	8A			U S COAST GUARD
MIDWAY SAND ISLAND	4490	07			28 13N	177 21W	10	MID	MID			U S NAVY
PAGO PAGO WSO AP	R 4690	03	AMER SAMOA		14 20S	170 43W	12	MID	MID		J	NATL WEATHER SERVICE
WESTERN PACIFIC ISL. NORTH OF 12 N												
ANDERSEN AFB GUAM	\$4 4025	03	MARIANNA IS		13 35N	144 55E	624	MID	MID			AIR WEATHER SERVICE
CLARK AFB LUZON	\$4 4100	06	PHILIPPINE I		15 11N	120 33E	475	MID	MID			U S AIR FORCE
GUAM NAS	4226	03	MARIANNA IS		13 29N	144 48E	254	MID	MID			U S NAVY
GUAM WSO	R 4229	03	MARIANNA IS		13 33N	144 50E	361	10A	10A	10A	J	NATL WEATHER SERVICE
MANGILAO	4468	03	GUAM		13 27N	144 49E	60		7A			GUAM AGRICULTURAL STA
ROTA	4800	03	MARIANNA IS		14 08N	145 09E	47		8A			DIST ADMINISTRATOR
SAIPAN LORAN	4860	03	MARIANNA IS		15 08N	145 42E	9	10A	10A			U S C G LORAN STATION
WAKE WSO AP	R 4901	01			19 17N	166 39E	11	MID	MID		J	NATL WEATHER SERVICE
CAROLINE AND MARSHALL ISLANDS												
ANGUAR	4030	02	CAROLINE IS		6 55N	134 09E	15		8A			USCG LORAN STATION
ENIWETAK	4165	01	MARSHALL IS.		11 21N	162 21E	10	MID	MID			U S COAST GUARD
FALALOP I. ULITHI	4185	02	CAROLINE IS		10 02N	139 48E	6	10P	10P			PRINCIPAL-ULITHI H-SCH
KAPINGAMARANGI ATOLL	4325	01	PONAPE		1 05N	154 48E	10	MID	MID			ERSIN HADUET
KOROR WSO	R 4351	02	CAROLINE IS		7 20N	134 29E	94	MID	MID		J	NATL WEATHER SERVICE
KWAJALEIN MISSILE RGN	R 4375	01	MARSHALL IS		8 44N	167 44E	7	12M	12M		J	KMR WEATHER SERVICE
LELE I. KUSAIE	4395	02	CAROLINE IS		5 20N	163 02E	7	MID	MID			JULIAN E ROBERT
MAJURO WSO AP	R 4460	02	MARSHALL IS		7 05N	171 23E	10	MID	MID		J	NATL WEATHER SERVICE
METALANIM	4482	02	PONAPE		6 51N	158 19E	30	8A	8A			REV E. A. SOUCIE
MOKIL ATOLL	4490	02	PONAPE DIST.		6 41N	159 47E	27		5P			ESHIAM BEN
NGASANG, RABELTHUAP	4580	01	PALAU ISLAND		7 38N	134 39E	10		8A			BETHANIA SEMINARY
PONAPE WSO	R 4751	02	CAROLINE IS		6 58N	158 13E	123	MID	MID		J	NATL WEATHER SERVICE
SATAWAN ATOLL	4814	02	CAROLINE IS		5 20N	153 44E	9	MID	MID			ANTER EKO
TRUK, MOEN I. WSO AP	R 4851	02	CAROLINE IS		7 28N	151 51E	5	MID	MID		J	NATL WEATHER SERVICE
WOLEAI ATOLL	4911	01	CAROLINE IS		7 23N	143 55E	7	MID	MID			HASUGULIMAR/HALEYEMAI
YAP WSO AP	R 4951	02	CAROLINE IS		9 29N	138 05E	44	MID	MID		J	NATL WEATHER SERVICE

SEE REFERENCE NOTES FOLLOWING STATION INDEX



Information concerning the climate of Hawaii and the Pacific Ocean Area may be obtained by writing to the National Climatic Center, Federal Building, Asheville, N.C. 28801, or to any National Weather Service Office near you. Additional precipitation data for Hawaii are contained in "HOURLY PRECIPITATION DATA HAWAII."

**UNUSUAL WEATHER:** Data, unless otherwise indicated, dimensional units used in this bulletin are: Temperature in °F., precipitation and evaporation in inches, and wind movement in miles. In "Supplemental Data" table directions entered in figures are tens of degrees. Resultant wind is the vector sum of wind directions and speeds divided by the number of observations.

**TIME:** Data in the "Monthly Extremes," "Daily Precipitation" table, "Daily Temperature" table, and "Evaporation and Wind" table are for the 24 hours ending at time of observation unless indicated otherwise by reference letters in the Station Index. The Station Index shows observation time for each record time.

**EVAPORATION:** Measured in the standard Weather Service-type pan of 4-foot diameter unless otherwise noted below in the Evaporation and Wind table. Max and Min values in the Evaporation and Wind table are extremes of temperature of water in pan as recorded during 24 hours ending at time of observation. Wind is the total wind movement in miles over the evaporation pan as determined by a continuous anemometer recorder located 6-8 inches above the pan.

**NORMALS:** For all stations are climatological standard normals based on the period 1941-1970.

**STATION NAMES:** Hawaii state key numbers are included following station names in the several tables.

**LATE REPORTS AND CORRECTIONS:** will be carried only in the June and December issues of this bulletin.

**INTERPOLATED VALUES:** for monthly precipitation totals may be found in the annual issue of this publication.

**IN THE DATA TABLES THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING:**

- No record in the "Supplemental Data" table, "Daily Precipitation" table, "Evaporation and Wind" table, and the Station Index.
- No record in the "Monthly Summarized Data" table and the "Daily Temperature" table is indicated by no entry.
- And also on an earlier date or dates.
- Highest observed one minute windspeed. This station is not equipped with an instrument to measure fastest mile data.
- \* Amount included in following measurement, time distribution unknown.
- Maximum and minimum temperatures are the highest and lowest hourly readings for each day.
- Extreme occurred at station with incomplete data which may have been exceeded.
- A The letter "A" shown following station name in "Monthly Summarized Data" table, "Daily Precipitation" table, and "Station Index," indicates amount carried in the "Total" column is for the period from last measurement of a preceding month through the last measurement of the current month. See "Daily Precipitation" table of this and previous bulletins for dates of measurement. Where gages are read only once monthly, measurements made on the first of a month are credited to the last day of the preceding month.
- T Adjusted to a full month.
- M One or more days of record missing; if average value is entered, less than 10 days record is missing. See "Daily Temperature" table for detailed daily record.
- R Amounts from recording gage.
- F Trace, an amount too small to measure.
- V Includes total for previous month.

**IN THE STATION INDEX THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING:**

- AR Observation made after rain.
- C In Special Column of Station Index indicates Recording Rain Gage Station. Hourly Precipitation values are processed for special purposes, and are published later in the "Hourly Precipitation Data" bulletin. If daily amounts are published in "Monthly Summarized Data" bulletin they are from a separate non-recording gage, except where indicated by reference 'R'. Such amounts may differ from amounts published from the recording gage in the "Hourly Precipitation Data" bulletin.
- J "Supplemental Data" table.
- MO Gage read once monthly; usually on the last day.
- OC Gage readings at periods varying from a few weeks to several months.
- S Storage Precipitation Station. Precipitation measurements, made at irregular intervals, are published in the December issue, or as late reports in the June issue of this publication.
- SS Observation time is near sunset.
- VAR Observation time is variable.
- WI Gage read weekly or irregularly only.
- WM Gage read weekly and last day of month.
- # Thermometers are generally exposed in a shelter located a few feet above sod-covered ground; however, this reference indicates that the thermometers are exposed in a shelter located on the roof of a building.
- + DRAINAGE CODE: KAUAI: 1-NORTHERN 2-SOUTHEASTERN 3-SOUTHWESTERN OAHU: 1-WINDWARD KOOLA: 2-HONOLULU 3-SOUTH CENTRAL 4-WESTERN 5-NORTH CENTRAL MOLOKAI: 1-(NO INTRA-ISLAND DIVISIONS) LANAI: 1-(NO INTRA-ISLAND DIVISIONS) MAUI: 1-NORTHEASTERN 2-SOUTHERN 3-CENTRAL 4-WESTERN HAWAII: 1-NORTHERN 2-EASTERN 3-SOUTHERN 4-WESTERN 5-CENTRAL

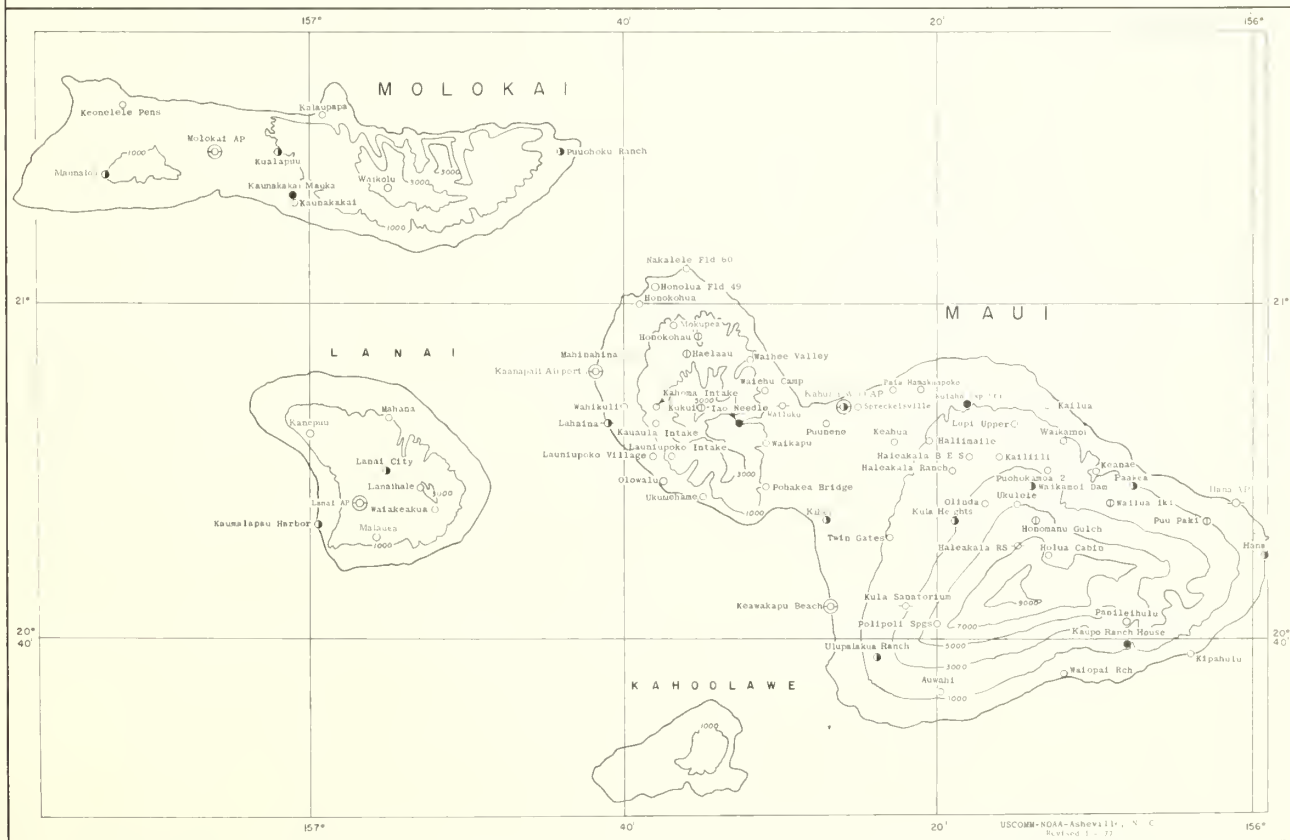
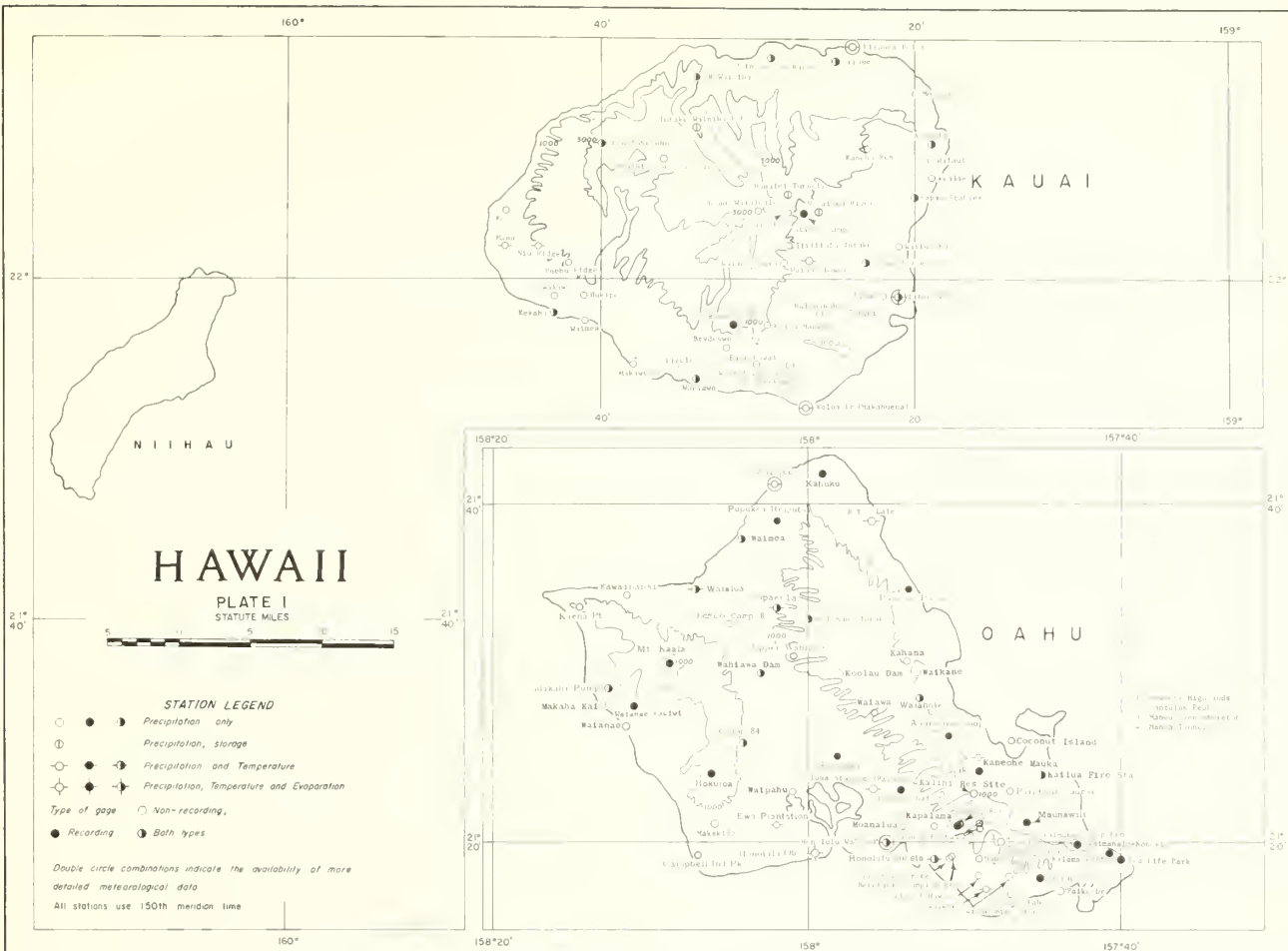
Stations appearing in the tables with no data were either missing or received too late to be included in this issue.

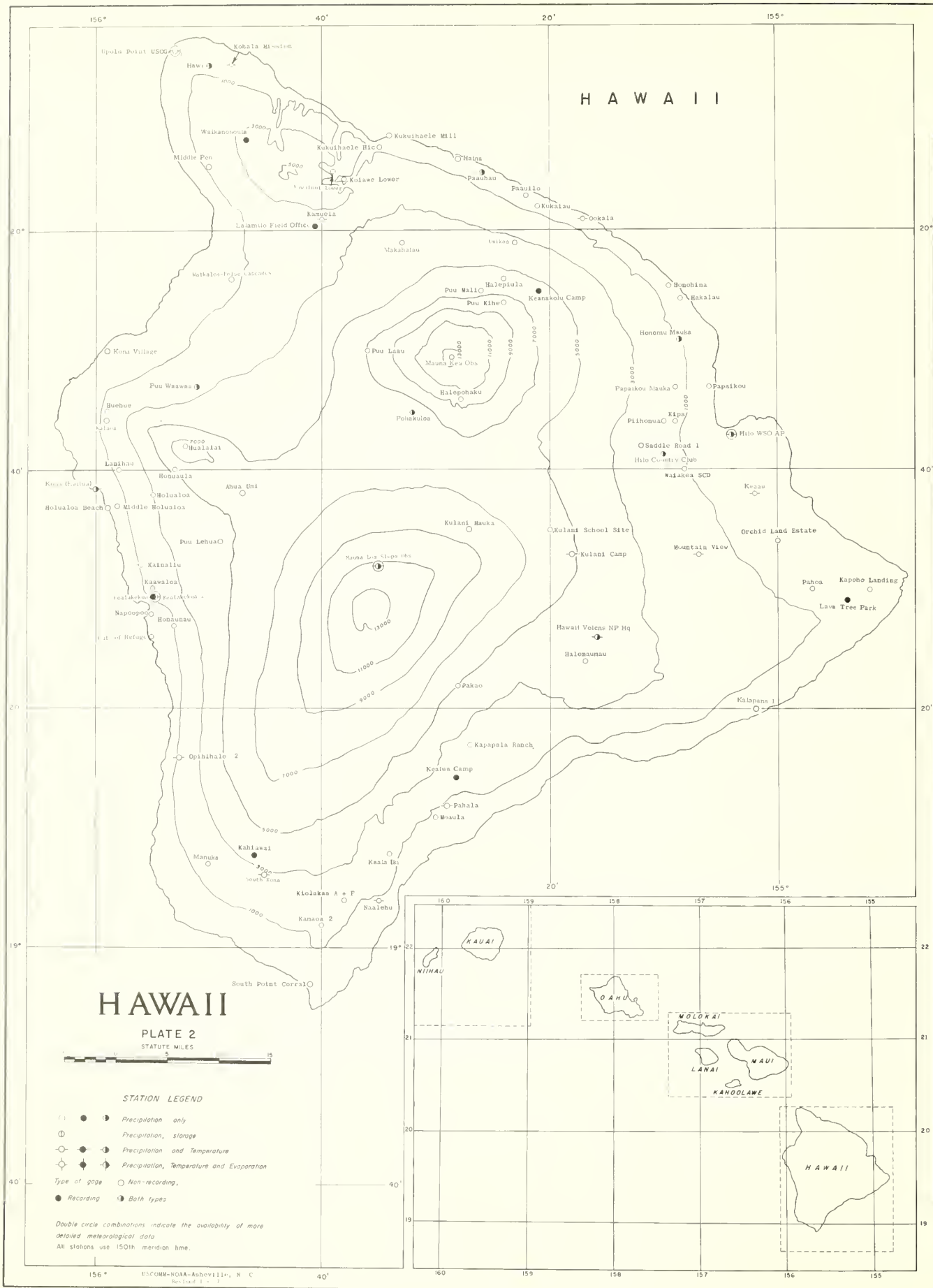
The Pacific includes Stations in the Trust Territory of the Pacific Islands, Territory of Guam, American Samoa, and other scattered islands and atolls. General weather conditions in the U.S. for each month are described in the CLIMATOLOGICAL DATA NATIONAL SUMMARY and STORM DATA.

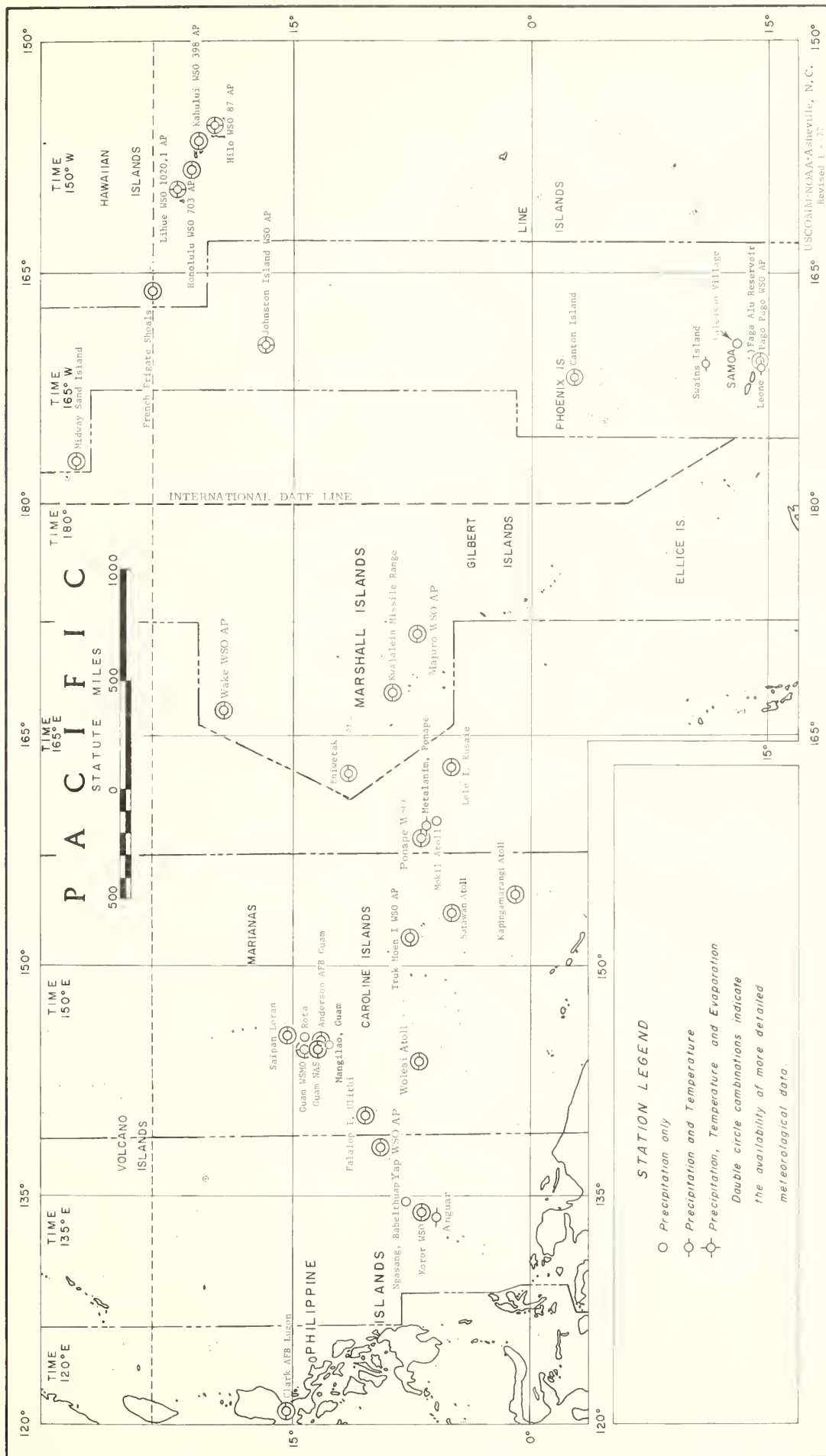
Information concerning the history of changes in locations, elevations, exposure, etc., of substations through 1957 may be found in the publication "Substation History" for this State, price 40 cents. Similar information for regular National Weather Service Offices may be found in the latest annual issue of Local Climatological Data, price 20 cents. These publications may be obtained from the National Climatic Center at the address shown above.

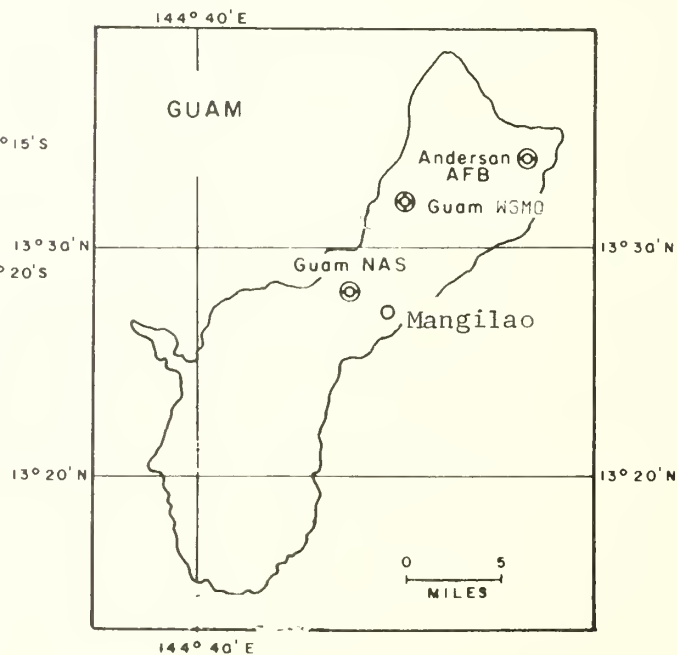
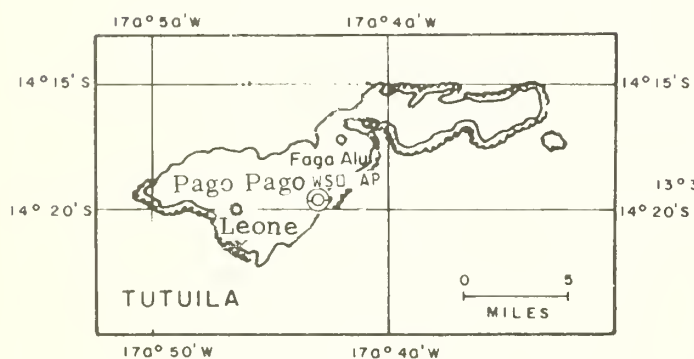
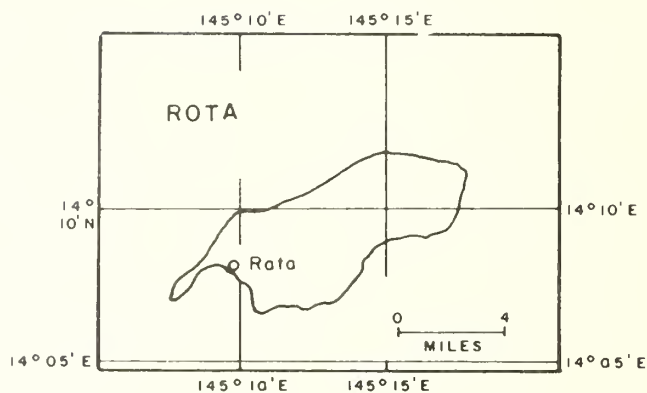
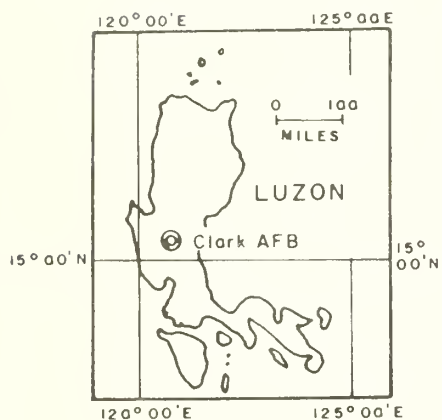
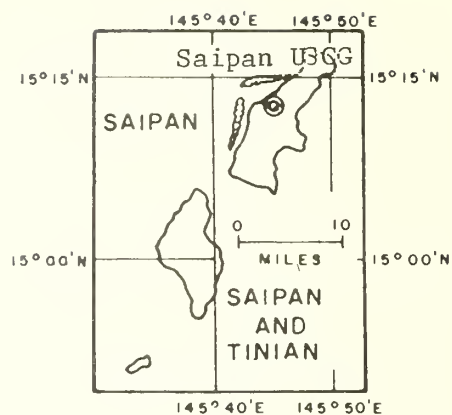
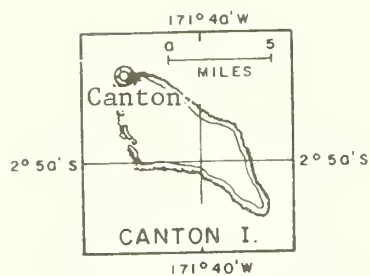
Subscription Price: \$5.10 a year for each section including annual summary. \$5.55 additional for foreign mailing: 40¢ single copy; 30¢ annual summary. Make checks payable to Department of Commerce, NOAA; send payments and orders to: National Climatic Center, Federal Building, Asheville, N.C. 28801. Attn: Publications.



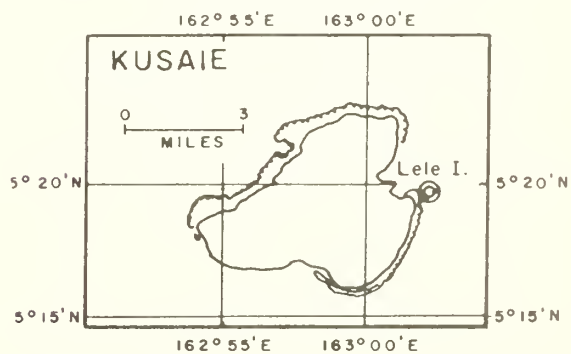
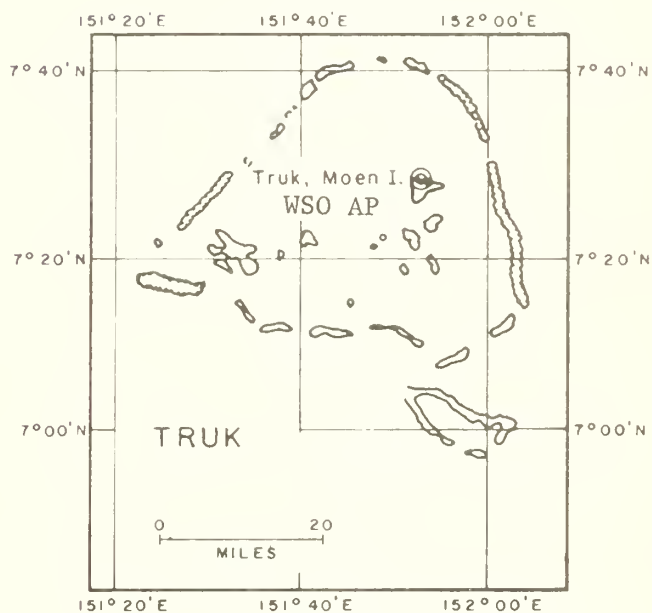
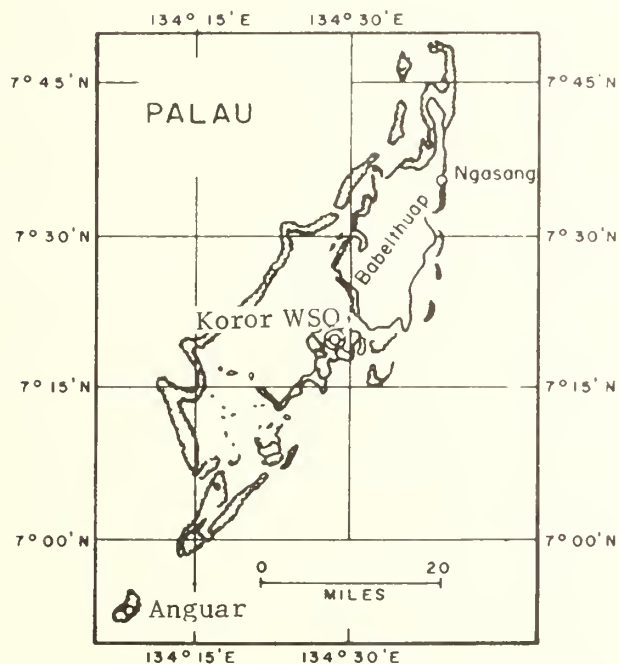
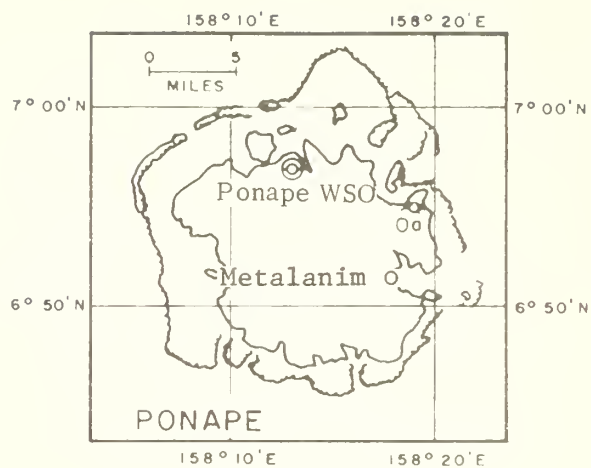
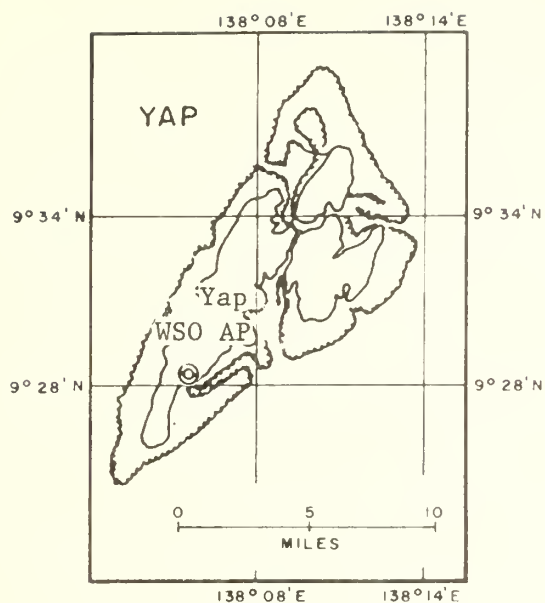






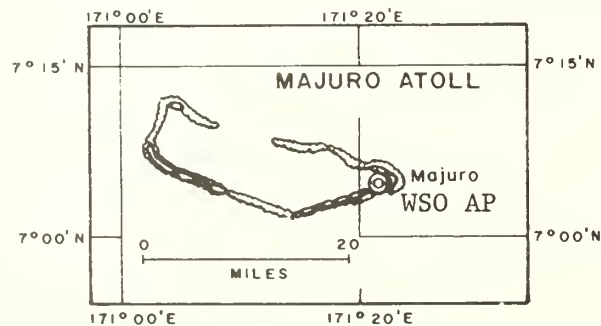
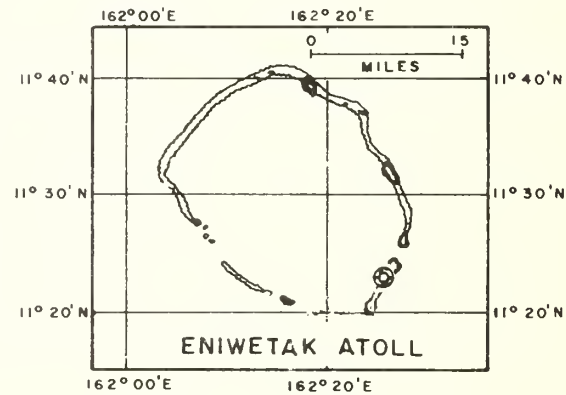
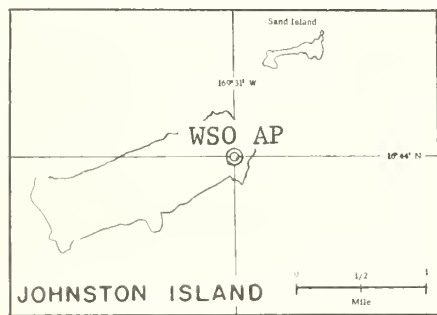
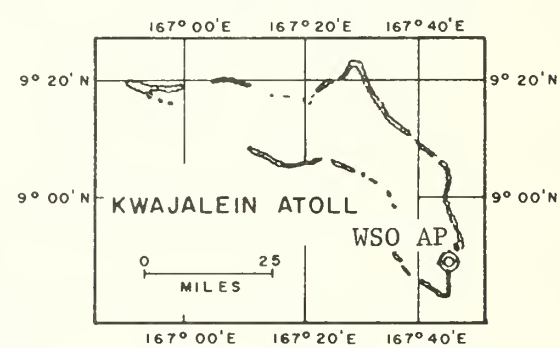
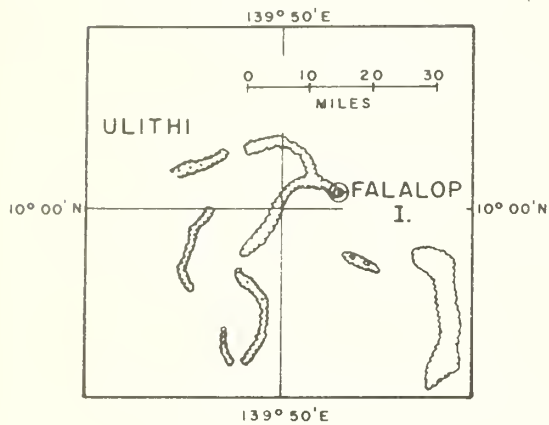
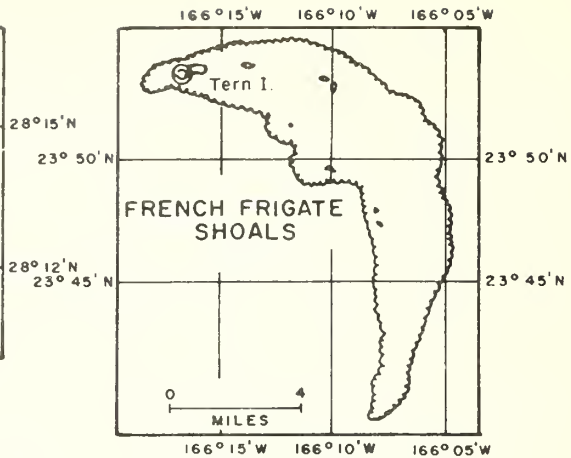
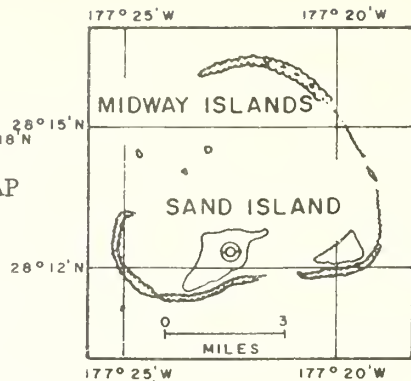
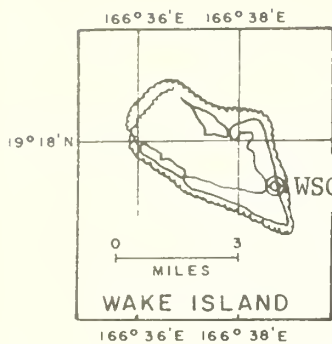


Reef



— Reef







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**THIRD CLASS**

# Climatological Data



## HAWAII AND PACIFIC

### TEMPERATURE AND PRECIPITATION EXTREMES

HAWAIIAN STATIONS ONLY

HIGHEST TEMPERATURE:	PUUKOHOLA PEAK 98.1	HAWAII	93	DATE	27
LOWEST TEMPERATURE:	MAUNA LOA SLOPE 085	HAWAII	31	DATE	09
GREATEST TOTAL PRECIPITATION:	MOUNT WAIALEALE 1047	KAUAI	44.10		
LEAST TOTAL PRECIPITATION:	POHAKULOA 107	HAWAII	.00		
GREATEST 1 DAY PRECIPITATION:	MOUNT WAIALEALE 1047	KAUAI	6.69	DATE	12

### SUPPLEMENTAL DATA

	WIND (SPEED - M.P.H.)						RELATIVE HUMIDITY AVERAGES- PERCENT				NUMBER OF DAYS WITH PRECIPITATION								PERCENT OF POSSIBLE SUNSHINE	AVERAGE (TENTHS) SKY COVER SUNRISE TO SUNSET
	RESULTANT DIRECTION	RESULTANT SPEED	AVERAGE	FASTEST MILE	DIRECTION OF FASTEST MILE	DATE OF FASTEST MILE	STANDARD OF TIME				TRACE	.01-.09	.10-.49	.50-.99	1.00-1.99	2.00 AND OVER	TOTAL			
							GREENWICH CIVIL													
							12	18	00	06										
GUAM WSMO	-	-	-	27	E 03	-	74	73	90	3	11	5	1	0	1	21	67	7.2		
HILO WSO 87 AP	14	2.6	6.6	21	SE 17	87	77	66	82	3	9	13	2	1	2	30	38	7.5		
HONOLULU WSO 703 AP	7	10.5	13.1	29	E 22	77	69	58	70	10	4	3	2	2	0	21	66	6.6		
JOHNSTON WSO AP	8	15.5	16.4	34	E 25+	79	76	70	77	8	15	2	0	0	0	25	86	5.4		
KAHULUI WSO 398 AP	6	10.3	11.8	34	NE 22	78	79	59	70	7	5	0	0	0	0	12	78	4.8		
KOROR WSO	8	3.9	7.3	25	NE 28	86	-	79	76	3	6	11	3	3	1	27	57	8.5		
KWAJALEIN MISSILE RGN	-	-	-	30++	9 08	84	85	77	80	4	11	3	4	2	2	26	-	8.3		
LIHUE WSO 1020.1 AP	7	9.5	12.6	33	S 12	81	77	69	78	4	10	6	0	3	2	25	56	7.0		
MAJURO WSO AP	7	11.7	12.0	29	E 09	86	86	80	83	2	6	8	8	3	2	29	49	9.5		
PAGO PAGO WSO AP	12	4.8	9.5	32	S 13	88	89	74	83	3	4	3	4	2	5	21	30	7.6		
PONAPE WSO	-	-	-	20	NE 02	88	-	79	79	2	7	7	3	7	4	30	34	8.9		
TRUK MOEN I. WSO AP	7	7.2	8.8	22	SE 08	84	-	79	79	6	6	7	5	4	0	28	43	9.8		
WAKE WSO AP	8	9.0	12.3	26	E 09	88	91	70	77	6	13	2	1	0	0	22	82	3.8		
YAP WSO AP	9	6.4	8.7	19	SE 13	85	-	76	73	6	11	1	0	3	2	23	66	7.5		



I CERTIFY THAT THIS IS AN OFFICIAL PUBLICATION OF THE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION AND IS COMPILED FROM RECORDS ON FILE AT THE NATIONAL CLIMATIC CENTER, ASHEVILLE, NORTH CAROLINA 28801.

*Daniel B. Mitchell*

DIRECTOR  
NATIONAL CLIMATIC CENTER

**noaa**

NATIONAL OCEANIC AND  
ATMOSPHERIC ADMINISTRATION / ENVIRONMENTAL  
DATA SERVICE / NATIONAL CLIMATIC CENTER  
ASHEVILLE, N.C.

## MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

HAWAII AND PACIFIC  
MAY 1977

STATION		TEMPERATURE										PRECIPITATION												
		AVERAGE MAXIMUM	AVERAGE MINIMUM	AVERAGE	DEPARTURE FROM NORMAL	HIGHEST	DATE	LOWEST	DATE	DEGREE DAYS	NO. OF DAYS				TOTAL	DEPARTURE FROM NORMAL	GREATEST DAY	DATE	SNOW, SLEET		NO. OF DAYS			
											MAX.	MIN.	30° OR ABOVE	32° OR BELOW					TOTAL	MAX. DEPTH ON GROUND	DATE	-10 OR MORE	-50 OR MORE	1.00 OR MORE
HAWAII																								
ISLAND OF KAUAI																								
ANAHOLA 1114	A	69.5	53.0	61.3		76	30	46	17		0	0	0	8.38		2.00	11		0				4	
KANALOHULU 1075														7.28		2.69	12		0		7	3	3	
KAPAA STABLES 1104	A													10.09		2.80	11		0				4	
KILAUEA POINT 1133		80.4	69.7	75.1		84	14	66	11+		0	0	0	4.47		1.46	11		0		9	3	1	
KOLOA 936	A													7.33		1.36	13		0				2	
LIMUE W50 1020-1 AP	//R	80.5	70.1	75.3	-1.2	82	31+	64	14		0	0	0	12.59	10.16	4.99	9		0		11	5	5	
MANA 1026		83.9M	64.6M	74.3M	-1.5	88	31+	61	2		0	0	0	3.70		1.41	10		0		5	2	2	
N WAILUA OITCH 1051	A													22.54		5.67	12		0					
PH WAINIMA 1115														V22.40					0				0	
PUEHU RIDGE 1040														6.30	4.34	1.81	11		0				4	
WAIHAWA 930	A													4.54	2.79	.76	10		0				0	
WAIHAI LOWER 1054		73.4	62.9	68.2		79	19+	58	19+		0	0	0	16.06	7.95	3.03	11		0		20	10	6	
WAIHAE 947														6.14	5.09	2.75	11		0		6	3	3	
ISLAND				70.8										9.12					0					
ISLAND OF OAHU																								
ALOHA STADIUM-HALAWA	M	M	M		90	19	66	23			1	0	0	4.67					0				0	
8 Y U LAIE 903.1		81.5	70.0	75.8		84	13	65	19		0	0	0	3.68		.72	11		0		8	3	0	
HONOLULU OBSERV 702.2														5.61		2.40	11		0		5	3	3	
HONOLULU W50 703 AP	R	84.1	71.0	77.6	.7	86	29+	68	17		0	0	0	4.76	3.80	1.50	14		0		7	4	2	
KANEODE MAUKA 781		78.7	69.7	74.2	.0	83	19	66	4		0	0	0	8.94	4.16	2.75	13		0		17	5	2	
KOOLAU DAM 833	A													12.26		1.75	13		0		21	10	4	
MANOA LYON ARBORETUM		78.0	65.8	71.9		85	19+	63	19+		0	0	0	22.63		6.03	13		0		21	13	8	
NUUANU RES 4 783														19.70		5.12	12		0				9	
OPAEULA 870	A	79.4M	63.7M	71.6M	1.6	87	23	61	15+		0	0	0	3.71		1.50	11		0				3	
PAOLO VALLEY 718	R													15.88	6.01	4.34	12		0		19	9	5	
WAIHAWA DAM 863	A													6.55		1.84	12		0				3	
WAIHOLE 837	A													13.62					0					
WAIKALEE 896.3														4.00		.79	13		0					
WAIKALUA 847	A	81.8	64.2	73.0	-.3	87	20	58	3		0	0	0	3.97	2.63	1.31	11		0		11	2	0	
WAIKIKI 717.2	A	84.2	68.3	76.3		86	29+	65	18+		0	0	0	5.41		3.08	13		0		5	4	1	
WAIMANALO EXP FARM		80.0	68.1	74.1		82	31+	49	1		0	0	0	9.38		4.06	13		0		9	5	3	
WAIPIAHU 750	A													5.31		2.13	11		0				2	
ISLAND				74.3										8.83					0					
ISLAND OF MOLOKAI																								
KUALAPUU 534	A													3.21		1.83	13		0					
MAUNALO 511	A													2.95		2.00	13		0				1	
MOLOKAI AP 524		83.1	66.5	74.8		87	19	61	20+		0	0	0	4.37		2.90	13		0		4	3	1	
ISLAND				74.8										3.51					0					
ISLAND OF LANAI																								
LANAI CITY 672	A													3.38	.27	1.76	15		0		7	2	1	
ISLAND														3.38					0					
ISLAND OF MAUI																								
HALEAKALA 8 E 5 434	A	64.2	44.5	54.4	.8	75	28	38	4		0	0	0	2.14	-1.70	1.00	22		0		6	1	1	
HALEAKALA RS 338		80.9	68.6	74.8		83	14	62	2		0	0	0	.62		.22	15		0		2	0	0	
HANA AIRPORT 355	A													3.51		.52	10		0		14	1	0	
HONOKOHU 493														2.60					0				0	
KANAPALI AP 453.1		81.5	66.2	73.9		85	21	62	2		0	0	0	.44		.20	13		0		1	0	0	
KAHULUI W50 398 AP	R	83.7	67.8	75.8	.4	89	9	63	16		0	0	0	.20	-.42	.08	14		0		0	0	0	
KAILUA 446		76.5M	66.2M	71.4M	.8	79	19+	64	23+		0	0	0	V27.17					0					
KEANAE 346	A													11.10					0					
KIPAHULU 258														6.18	-.63	2.00	14		0		18	2	1	
KULA SANATORIUM 267		71.3	56.9	64.1	.6	75	29	51	30		0	0	0	2.10	-.10	1.14	14		0		2	2	1	
LAHAINA 361		85.5	67.1M	76.3M	1.4	88	28+	64	30+		0	0	0	.17	-.31	.13	14		0		1	0	0	
PAIA 406														.66	-.91	.14	22		0					
WAILUKU 386	A	81.2M	68.1M	74.7M	.0	86	16	66	17+		0	0	0	.67	-.35				0		2	0	0	
ISLAND				70.7										2.53					0					
ISLAND OF HAWAII																								
HAWAII VOLCNS NP HO 54	R	67.4M	51.6M	59.5M	-.9	73	18	48	17+		0	0	0	5.70	-2.05	1.31	22		0				1	
HILO W50 87 AP	A	83.1	66.3	74.7	1.1	87	17	61	3		0	0	0	10.86	.79	2.96	18		0		18	5	3	
HUEHUE 92.1														2.63					0					
KAINALIU 73.2		76.1	60.2	68.2		79	30+	57	4+		0	0	0	5.44	-1.54	1.53	19		0				1	
KAPOHO BEACH 93.11														4.69		.79	22		0		2	0		
KEARU 92		78.8	64.1	71.5		82	18	59	3		0	0	0	8.00		1.05	22		0		21	5	1	

SEE REFERENCE NOTES FOLLOWING STATION INDEX



## MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

HAWAII AND PACIFIC  
MAY 1977

STATION		TEMPERATURE											PRECIPITATION																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
		AVERAGE MAXIMUM	AVERAGE MINIMUM	AVERAGE	DEPARTURE FROM NORMAL	HIGHEST	DATE	LOWEST	DATE	DEGREE DAYS	NO. OF DAYS				TOTAL	DEPARTURE FROM NORMAL	GREATEST DAY	DATE	SNOW, SLEET			NO. OF DAYS																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
											MAX.	MIN.							TOTAL	MAX. DEPTH ON GROUND	DATE	.10 OR MORE	.50 OR MORE	1.00 OR MORE																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
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SEE REFERENCE NOTES FOLLOWING STATION INDEX

## MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

HAWAII AND PACIFIC  
MAY 1977

STATION		TEMPERATURE										PRECIPITATION																
		AVERAGE MAXIMUM	AVERAGE MINIMUM	AVERAGE	DEPARTURE FROM NORMAL	HIGHEST	DATE	LOWEST	DATE	DEGREE DAYS	NO. OF DAYS				TOTAL	DEPARTURE FROM NORMAL	GREATEST DAY	DATE	SNOW, SLEET			NO. OF DAYS						
											MAX.	MIN.							TOTAL	DEPARTURE FROM NORMAL	GREATEST DAY	DATE	TOTAL	MAX. DEPTH ON GROUND	DATE	-10 OR MORE	-50 OR MORE	1.00 OR MORE
												32° OR BELOW	32° OR BELOW	32° OR BELOW														
PACIFIC																												
EAST OF 180TH MERIDIAN																												
	CANTON ISLAND	89.5M	80.6M	85.1M		91	19+	79	23+		0	0	0	3.14					.0	0					0			
	FAGA ALU RESERVOIR													19.96		4.27	15		.0	0			18	11	5	0		
	FALEASAO VILLAGE													1.14	- 1.08	.33	21		.0	0			2	0	0			
R	JOHNSTON WSO AP	82.7	75.2	79.0	.1	84	24+	71	27		0	0	0	33.33		6.00	14+		.0	0			15	11	10			
	LEONE	87.5	78.9	83.2		93	2	73	11		7	0	0						.0	0								
	FRENCH FRIGATE SHOALS	79.3	68.1	73.7	-.9	83	18	60	24+		0	0	0	1.39	-.93	.91	20		.0	0			1	1	0			
	MIDWAY SAND ISLAND	76.6	67.5	72.1	-.7	81	24	61	16		0	0	0	1.38	-.84	.41	27		.0	0			5	0	0			
R	PAGO PAGO WSO AP	85.2	73.5	79.4	-.1	88	8+	68	25		0	0	0	20.21	- 9.52	3.23	13		.0	0			14	11	7			
WESTERN PACIFIC ISL. NORTH OF 12 N																												
	ANDERSEN AFB GUAM	82.5	75.5	79.0	- 1.3	84	30+	72	18		0	0	0	3.30	- 1.10	1.18	18		.0	0			9	2	1			
	CLARK AFB LUZON	91.7	76.0	83.9	-.3	97	14+	73	31+		25	0	0	4.26	- 2.20	1.84	25		.0	0			10	2	1			
	GUAM NAS	86.7	77.5	82.1	-.8	89	22+	75	18+		0	0	0	3.91	-.36	3.39	18		.0	0			3	1	1			
R	GUAM WSMO	86.4	71.4	78.9	-.5	89	16	66	16		0	0	0	6.88	- 2.39	4.30	18		.0	0			7	2	1			
	MANGILAO													5.34		2.00	19		.0	0			7	3	2			
	ROTA																											
	SAIPAN LORAN																											
R	WAKE WSO AP	86.5	74.2	80.4	-.6	89	31+	71	14+		0	0	0	1.60	-.65	.62	14		.0	0			3	1	0			
CAROLINE AND MARSHALL ISLANDS																												
	ANGUAK													8.98	- 1.51	2.01	6		.0	0			13	6	3			
	ENIWETAK	85.5	80.8	83.2	.7	89	15	79	4		0	0	0	.61	- 3.75	.19	13		.0	0			2	0	0			
	FALALOP I. ULITHI	87.9M	79.0M	83.5M		90	29	70	25		1	0	0			1.35	18		.0	0			10	3	1			
	KAPINGAMARANGI ATOLL	88.3M	74.6M	81.5M		91	16+	72	27+		11	0	0			1.25	1		.0	0			22	11	4			
R	KOROR WSO	89.1	76.8	83.0	1.0	91	24+	75	29+		13	0	0	11.36	- 3.17	2.31	29		.0	0			18	7	4			
R	KWAJALEIN MISSILE RGN	86.2	77.2	81.7	-.1	89	23	73	10		0	0	0	12.36	2.65	2.96	3		.0	0			11	8	4			
	LELE I. KUSAIE	88.4M	72.0M	80.2M	- 1.0	91	18	63	15		6	0	0			6.07	10		.0	0			19	10	4			
R	MAJURO WSO AP	85.3	74.9	80.1	- 1.2	88	13	72	25+		0	0	0	17.21	5.06	2.19	10		.0	0			21	13	5			
	METALANIM	86.5	75.9	81.2		96	17	73	21+		2	0	0	16.42		2.83	7		.0	0			16	12	4			
	MOKIL ATOLL													10.16	7.66	1.48	25+		.0	0			17	8	3			
	NDASANG, BABELTHUAP																											
R	PONAPE WSO	87.6	74.9	81.3	.6	90	29+	73	23+		4	0	0	26.17	6.74	4.16	9		.0	0			21	14	11			
	SATAWAN ATOLL																											
R	TRUK, MOEN I. WSO AP	87.6	76.4	82.0	.7	90	23+	74	27+		4	0	0	11.67	- 4.07	1.71	4		.0	0			16	9	4			
	WOLEAI ATOLL	88.2	76.2	82.2		90	22+	72	24		5	0	0	10.35		1.90	11		.0	0			16	6	4			
R	YAP WSO AP	87.7	74.7	81.2	-.6	90	25+	70	24+		2	0	0	10.36	.33	3.61	13		.0	0			6	5	5			

SEE REFERENCE NOTES FOLLOWING STATION INDEX

## DAILY PRECIPITATION

HAWAII AND PACIFIC  
MAY 1877

STATION		TOTAL	DAY OF MONTH																																																																	
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31																																			
HAWAII																																																																				
ISLAND OF KAUAI																																																																				
ANAHOLA 1114																																		A	8.38				.07		.32	x	x	.25	1.60	2.00	1.50	1.50	x	x	.70		.05			x	.20		.02	.02	.10	x	x	.03	.02			
BAVECHUDD STA 985																																		A	8.53	x	.35	.01	.15	.25	.82	x	x	.42	.85	1.65	.80	1.05	x	x	1.05	.01			.02			x	.50	.08	.02	.02	.20	x	x	.32	.06	
EAST LAWA 934																																		A	9.09	x	.24	.01	.07	.45	.39	x	x	.46	1.32	2.15	.62	1.50	x	x	.70				.03	x	.43	.03	.02	.09	x	x	.48	.07				
ELEETE 827																																		A	4.01	x	.05		T	.12	.13	x	x	.06	.75	.61	.43	.57	x	x	.61					x	.35	.03	T	.03	x	x	.22	.05				
HALAULA 1110																																		A	9.83				.08		.23	x	x	.30	1.70	3.05	1.50	1.55	x		.80		.10			x	.15		.02	.03	.15	x	x	.05	.02			
HALENNAHU 1006																																		A	11.59	x	.32		.22	.54	.71	x	x	.98	1.95	2.19	.99	1.39	x	x	.96				.13	x	.34	.12	.03	.31	x	x	.47	.15				
HUKIPO 945																																		A	5.43				.06			x	x	.17	2.57	2.80	1.30	1.30	x	x	.93	.21				x	.08	.02	.05	.10	x	x	.08	.03				
11111 LULA INTAKE 1050																																		A	22.18	x	.84	.02	.28	1.06	1.76	x	x	1.81	3.35	3.71	3.06	2.01	x	x	.20	.01		.07	.19	x	1.18	.11	.10	.18	1.06	x	x	1.09	.10			
INTAKE WAHINIA PC 1086																																		A	9.99	x	x	.03	x	x	x	x	x	2.88	x	x	x	3.70	x	x	x	x	.54			x				1.85	x	x	x	.99	x			
KANALOHULULU 1075																																		A	7.29				.07	.02	.22			.02	1.35	2.05	2.69	1.15	.03		.49					.10	.02			.02								
KANEHA RESERVOIR 1092																																		A	14.98	x	.05		.05	.03	.85	x	x	.70	2.00	4.90	2.70	1.60	x	x	.50	.05				x	.60		.05	.10	.30	x	x	.40	.10			
KAPPA STABLES 1104																																		A	10.09				.05	.40		x	x	.17	2.57	2.80	1.30	1.30	x	x	.93	.21				x	.08	.02	.05	.10	x	x	.08	.03				
KEALA 1112																																		A	8.46				.07	.15		x	x	.15	1.75	2.05	1.75	1.20	x	x	.85	.03	.05			x	.10		.03	.02	.20	x	x	.03	.03			
KICKAW 948																																		A	4.01				.01	x	.06			.06	.65	1.79	.17	.87	.17	.20	.03																	
KILAUER 1134																																		A	6.47				.41	.29	.26	.12	.65	.53	1.42	1.27	.62	.03							.15		.26	.03	.14	.15								
KILAUER POINT 1133																																		A	4.47				.40	.16	.27	.02	.02	.17	.67	1.46	.74	.03								.15	.27	T	T	.02	.02	.01		.06	T			
KOLD 1033																																		A	4.09				.12						2.01	.95	.40	.10			.50																	
KOLPA 936																																		A	7.33	x	.20	.01	.05	.35	.57	x	x	.53	.83	1.00	.30	1.36	x	x	.90				.11	x	.30	.03	.02	.01	.08	x	x	.64	.04			
KOLPA LN (PMA) 940.1																																		V	3.58		.01		.07	.07	.03	.14	.03		.75	1.12	x	.89	x							.14			.04	.01	.01	.19	.08	.01				
KOLPA MAUKA 984																																		A	12.41	x	x	1.12	x	1.13	x	x	x		2.70	x	4.18				T	x	1.35	x	x	x	.79			x	.15	x	x	.98				
KUKUIULA 935																																		A	5.42	x	.01	.01	.04	.07	.20	x	x	.25	1.32	.92	.26	1.15	x	x	.46				.10	x	x	.32	T		.05	x	x	.24	.02			
LIHUE VARIETY ST 10621																																		A	13.53	x	.02		.16	.08	.64	x	x	.50	4.79	2.91	.73	1.92	x	x	.55					x	.25			.10	.35	x	x	.54				
LIHUE 1020																																		A	10.04	x	.02		.51	.05	.18	x	x	.24	2.34	3.45	.86	1.60								x	.09	.07		.01	.18	x	x	.32	.01			
LIHUE WSO 1020.1 AP																																		2	12.58	T	.02		.36	.02	.10	.03	.18	.49	2.37	1.35	1.26	1.23	.02					T	T	.08	.05	.12	T	.06	.10	.08	.01	.15	.01			
MAKAWILI 965																																		A	6.01				.01	.01					1.64	1.89	.75	.85	.70		.04						.08	.01		.01	.02							
MAKA 1026																																		A	3.70				.05	.13		.05	.05		1.41	1.28	.42	.16			.09				.07	.33			.16	.09	.08	.08	.08	.09	x			
MOHINI UPB CROSS 1083																																		A	10.07				.16	.16	.49			.08	2.55	1.39	3.94	.57	.25								.33			.16	.09	.08	.08	.08	.09	x		
MOLORA 1145																																		A	7.77	x	x	.12	x	x	.09	x	x	.29	x	4.20	x	2.50	x	x				x	.09				.19	x		.09	x	x	.20	x		
MOUNT WAIALEALE 1047																																		A	44.10	.04	.16	.55	1.61	3.90	3.90	.43	1.54	5.31	4.69	3.79	6.69	.67	.08		.04	x	1.10	.29	1.73	.58	.63	.31	.29	.75	2.40	1.81	.29	.47	.08			
NIU RIDGE 1035																																		A	4.65				.25						x	3.50	x	x	x		.90																	
N WAHIA DITCH 1051																																		A	22.54	x	.13	.15	.22	.93	2.55	x	x	1.43	2.08	4.24	5.67	1.17	x	x	.63	.01	.01		.05	.15	x	x	.97	.05	.15	.09	.97	x	x	1.02	.07	
PH WAHINIA 1115																																		V22	40	x	.01		.13	.57	.80	x	x	.62	.54	.67	.54	.19	x	x	.72					x	x	.08	.09	.07	T	.22	x	x	.48	T		
PRINCEVILLE RANCH 1117																																		V16	84	x	.01		.25	.45	.46				2.53	.72	.05	.60		x	1.15					x	.53	.01	.02	.01	.29	x	x	x	.48	T		
PUEHU RIDGE 1040																																		A	6.30				.18						1.09	1.91	1.22	.40	x	.60	1.00																	
PUHI 1013																																		A	6.10	x	.34	.01	.17	.02	.20	x	x	.33	.90	1.90	.68	.63	x	x	.55	.02	.01			x	.25		.04	x	x	.03	.02					
WAHIAHUA 930																																		A	4.54	x	.05		T	.05	.16	x	x	.22	.76	.68	.70	.74	x	x	.46					x	.32	.01	.01	T	.04	x	x	.33	.04			
WAHIAHUA LOWER 1054																																		A	25.08	.01			.26	1.00	1.40	.56	.66	.28	2.94	3.03	1.60	1.34	.60	.03	.05	.01		.05	.14	.11	.45	.10	.06	.06	.14	.99	.15	.09	.11	.22		
WAHIAHUA UPPER 1052																																		A	19.64	.04	.01	.02	.32	1.05	1.62	.61	.68	1.62	3.32	3.42	2.24	1.04	.74	.05	.07	.01		.04	.17	.13	.41	.14	.13	.10	.17	.72	.42	.11	.14	.09		
WAHIAHUA 943																																		A	3.98				.05						.95	1.33	.21	1.10	.16	.24	.05																	
WAHIAHUA KAI 1065																																		A	13.60	x	.03		.09	.36		x	x	.51	5.16	3.25	1.45	1.49	x	x	.72		.04			x	.05	.02	.06	.19	x	x	.14	.06				
WAHIAHUA 847																																		A	6.14				.10						1.05	2.75	.25	1.72	.07	.20																		
WEST LAHAI 931																																		A	7.18	x	.03		.03	.08	.19	x	x	.37	1.75	1.49	.25	1.17	x	x	.97	T			.02	x	.42	.01	.01	.02	.08	x	x	.35	.04			
ISLAND OF MAUI																																																																				
ALONA STADIUM-HALAWA																																		A	4.67				.27	x	x	.05			.45	.90	.35	.87	x	x	1.64					x	.15				.03	x	x	x	.06			
BERETANIA PUMPING STA																																		A	6.56				.05	.03	.13	.06	T		.36	.62	.22	3.90	.99	x	.01					x	.22											
B Y U LAIE 903.1																																		A	3.68				.07	.05	.28			.26	.71	.72	.05	.65	.29	.22	.01									.03	.01		.02					
CAMPBELL IND PK 702.5																																		A	9.64							.03			.49	3.00	.19	1.44	4.40	.08	T																	
CAMP 84 807																																		A	5.65	x	x	x	x	.06	.19	x	x	.09	x	2.68	.55	1.21	.62	.05	x	x	x	x	x	x	.01	x	x	x	x	x	.21	x	x	x		
COCONUT ISLAND 940.1																																		A	5.07			.02	.11	.15		x	x	.25	.71	.47	.21	1.92	x	x	.72					x	.29	.02	.02	.02	x	x	x	.16				
CUA PLANTATION 741																																		</																																		

# DAILY PRECIPITATION

HAWAII AND PACIFIC  
MAY  
1977

STATION	TOTAL	DAY OF MONTH																														
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
HAWAII																																
WAIKOLU 540	A	10.93	x	x	x	2.62	x	x	x	x	x	x	x	x	x	6.64	x	x	x	x	x	x	x	x	x	1.67	x	x	x	x	x	x
ISLAND OF LANAI																																
KANEIPI 690	A	1.35	x	x	.90	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	.45	
KAUHAUAPU HARBOR 650	A	1.09	-	-	-	T	-	-	-	.36	-	.03	.02	.01	-	.67	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LANAI AIRPORT 656	A	3.38	x	x	x	.21	.14	.07	x	x	x	.55	.04	.15	.14	.21	1.76	x	x	x	x	x	x	x	x	x	x	x	x	x	.03	4.80
LANAI CITY 672	A	5.48	x	x	x	.68	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	
LANAIHALE 684	A	3.00	x	.10	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	3.00	
MAHANA 694	A	2.78	x	x	x	x	x	x	x	x	x	x	x	x	x	2.68	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	
MALAEU 676	A	7.58	x	x	x	x	x	x	x	x	x	x	.77	x	x	6.03	x	x	x	.78	x	x	x	x	x	x	x	x	x	x	x	
WAIKAEKUA 685	A																															
ISLAND OF MAUI																																
AUWAHI 252	A	2.75	x	x	x	x	x	x	x	x	.25	x	x	x	x	2.50						.24	1.00	.12	.19	.01	.01	.11		.01		
HALEKALUA E S 434	A	2.14				.03	.25	.03	.03	.02		.03	.02		.01	.01	.22		.02					.44								
HALEKALUA RANCH 432	A	.65																														
HALEKALUA S 338	A	.62				.02	T	.05	.04	T		T	.05	.02		.22		.01		T	.04	.17	T	T								
HAUWALE 423	A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
HAKAPUAPU 485	A	2.55	.09	.02		.06	.14	.21	.21	.16	.10				.14							.22	.34	.03	.08	.07	T	.06	.41	.08	.02	.11
HANA 354	A	2.21	x	.02	.04	.20	.12	.04	.38	x	x	x	x	x	x	x	.94	.03	.03					.18			.23					
HANA AIRPORT 355	A	3.51	.01		.04	.24	.12	.20	.10	.20	.52	.05	.27		.37		.06	.23				.17	.05	.15			.29	.15	.11	.08	.09	
HONOKAHU 480	A	2.69	x	x	x	x	x	x	x	2.42	x	x	x	x	.20	x	x	x	x	x	x	.05	x	x	x	x	x	x	x	x	5.00	
HONOKAHU 480	A	5.00	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	
HONOKAHU 480	A	5.00	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	
HONOKAHU 480	A	5.00	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	
HONOKAHU 480	A	5.00	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	
HONOKAHU 480	A	5.00	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	
HONOKAHU 480	A	5.00	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	
HONOKAHU 480	A	5.00	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	
HONOKAHU 480	A	5.00	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	
HONOKAHU 480	A	5.00	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	
HONOKAHU 480	A	5.00	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	
HONOKAHU 480	A	5.00	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	
HONOKAHU 480	A	5.00	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	
HONOKAHU 480	A	5.00	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	
HONOKAHU 480	A	5.00	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	
HONOKAHU 480	A	5.00	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	
HONOKAHU 480	A	5.00	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x												

# DAILY PRECIPITATION

HAWAII AND PACIFIC  
MAY 1977

STATION	TOTAL	DAY OF MONTH																															
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
HAWAII																																	
KUKUIHALE MILL 206	.58	.05	.02										.05																				
KULANI CAMP 79	4.41	x	x	x	.11	.29	.13	.62	.13	.05	.05	.30	.61	.02	.14	.19	.02		.22	.13	x	x	.16	x	.25		.03	.02		x	x	.10	.06
KULANI MAUKA 76	.89	x	x	x	x	x	.10					.25		.04					.30														
KULANI SCHOOL SITE 78	4.55	x	x	x	x	x	x	1.21	x	x	T	x	x	x	1.10	x	x	x	x	x	x	x	x	x	x	x	x	x	x	1.30			
LANIHAU 88.2	7.70	.58	.03		.34	.05	.10	1.11	1.53	.03	.09		.06	.11	.09		.91	.33	.04	.72	.32	.03	.31	.30						.12	.10	.10	
MAKAHALAU 103	2.17										.55				x	x	1.34		.28														
MAUKA 2	1.27	x	.07	T		T	x	x	.10			.10		.09	T	x	.20			.10	.30							.40			T		
MAUNA KEA OBS 111.2	-											.82		.09																			
MAUNA LOA SLOPE OBS	.85																		.01	.03													
MIDDLE MAUWALA 68.1	5.54	x	.02	x	x	x	x	x	x	63	x	x	x	x	x	x	1.15	x	x	x	x	x	x	2.92	x	x	x	x	x	x	x	.82	
MIDDLE PEN 147.1	.59										.07		.06		x	x			.46														
MOAULA 18	2.73	x	x	.45	x	x	x	x	x	.09		x	x	x	x	x	x	1.49	x	x	x	x	x	x	x	x	.70						
MOUNTAIN VIEW 91	10.48	.45	.14		.07	.80	.02	1.12	.27	.61	.04	.21	.93	.25	.06	.02		.01	1.25	.50	.43	.35	1.49	.35	.24	.02	.06	.16	.21	.19	.13	.10	
NAALEHU 14	2.39	x	.53	T	x	x	x	x	x	.50	x	x	x	x	x	x	.73	x	x	x	x	x	x	1.49	x	x	x	x	x	x	x	.12	
NAP00P03 28	5.16	x	2.32	x	x	x	x	x	x	.50	x	x	x	x	x	x	.73	x	x	x	x	x	x	1.49	x	x	x	x	x	x	x		
OKALA 223	6.66	.36	.03	T	T	.02		.18	.10			.06		.21			4.20			T	.05	.80	.05	.13	.03	.02	.12		.20	.05	.05		
OPHIHALE 2 24.1	2.48	x	x	.01	.09	.05	.06	.25	.01	T	.07	.07	T	.55	.14		.02	T	.29	.02	.02	x	x	.05	.11	.05	.17	.12	.31	T	.02	T	
ORCHID LAND EST 91.5	8.95	x	x	x	x	x	2.40	x	x	x	x	x	x	2.56	x	x	x	x	x	x	2.06	x	x	x	x	x	1.93	x	x	x	x		
PARAHU 217	.62	.05	x		.02						.03						.01					.33	.02	.01	.03				.03	.02	.07		
PARAULO 221	2.38	.12	.01					.02				.01					1.10				T		.97	T	.10	T	.02	.02	T	.01			
PAHALA 21	2.62	x	.17		.15						.15	.54	.25	x	x	x	.12		.55	.69	T		.97	.23	.18	.05	.15	.39	.57	.22	.15	.05	
PAHUA 65	9.35	.23	.12		.14	.33	.27	.75	.10	.22	.07	.53	.54	.04	.05	x	x	.15	1.58	.24	.47	.55	x	x	x	x	10.00						
PAKAO 37	10.00	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x		
PAPAIKOU 144.1	10.38	.45	.44	.14	.08	.17	.11	x	x	.91	.07	.56	.55	.01			.01	4.69	.01	.19	x	x	1.19	.12	.01	.14			x	x	.50	.03	
PAPAIKOU MAUKA 140.1	39.86	x	1.47	.13	.12	.19	.16	x	x	1.77	.10	.32	.66	.46			.03	5.53		.43	x	x	1.93	.33	.02	.16	.15	x	x	1.32	.15		
PISHOHA 89	28.50	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	28.50		
POHAKOLA 107	.00																																
POHAKOLA HEIRU 98.1	.37							x	x	x	x	x	.09		.13		x	.02		.13	x	x	x	x	x	x	x	x	x	x	1.15		
PUU LEHUA 73	1.15	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x		
PUU MAUWALA 94.1	1.94				.03	.59	.12				.03	.10					.48		.50		.05	x	x	.04									
SADDLE ROAD 1 84	19.53	x	x	x	x	11.50	x	x	x	x	x	3.93	x	x	x	x	x	x	1.52	x	x	x	x	x	x	x	2.58	x	x	x	x		
SOUTH KONA 2.31	1.20	.48	.07	.07	.03											.16			.24			.15											
SOUTH POINT CORRAL 3	.00				x	x	.65	x	x	x	x	x	x	.25								x	x	x	x	x	x	x	x	x	x		
UPOLU POINT USCG 159.2	1.50				T	T	.10	T	T	T	.04	T		.09			.08		T	T	.01	.54		.01	T	.04	.62	.06	T				
WAIKAKA SCO 88.2	10.30	.26	.12	.03	.13	.46	.12	1.57	.30	.19	.01	.22	.79	.09			2.40		.33	.33	.52	1.32	.06	.29	.03	.12	.25	.24	.07	.05			
WAIKALOA-BOIS CAS 95.8	.95				.14						.05			.11	x	x	.58				.07												

SEE REFERENCE NOTES FOLLOWING STATION INDEX



# DAILY PRECIPITATION

HAWAII AND PACIFIC  
MAY 1977

STATION	TOTAL	DAY OF MONTH																																
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
PACIFIC																																		
EAST OF 180TH MERIDIAN																																		
CANTON ISLAND	3.14	-	-	-	.40	-	-	.15	*	.07	-	-	-	.29	.45	-	-	-	-	-	.06	.04	*	.05	.44	-	-	-	.28	*	*	.01	-	
FAGA ALU RESERVOIR	19.96	-	-	.04	3.15	2.55	2.11	.78	.36	.52	.31	.82	.15	.07	T	4.27	-	.74	1.14	.38	.45	.26	.92	.54	T	-	-	-	.04	-	-	-	-	
FALEASAD VILLAGE	1.14	T	.02	T	T	.07	.06	T	.36	.03	.01	-	-	-	-	-	T	.01	.03	T	.03	.33	T	.06	.03	.05	.04	.04	.28	.03	.01	T	-	
JOHNSTON WSO AP	33.33	-	.30	.01	1.43	.88	3.08	-	-	-	.45	6.00	2.61	5.60	6.00	1.80	1.40	1.15	2.07	-	.20	.34	.01	-	-	-	-	-	.28	.03	.01	T	-	
LEONE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
FRENCH FRIGATE SHOALS	1.38	-	.01	.01	.02	.02	.01	.01	.01	.01	.03	.05	.02	-	-	.06	-	-	-	-	.02	.91	-	.02	.02	.03	.04	-	-	-	-	.09	-	
MIDWAY SAND ISLAND	1.38	T	.17	.01	-	-	.17	.01	.01	T	-	T	T	T	T	-	.04	-	-	-	-	-	T	-	-	-	-	-	.41	.39	-	.17	-	
PAGO PAGO WSO AP	20.21	.18	.02	-	.91	.60	2.38	-	.03	.01	2.90	2.63	2.43	3.23	1.77	.15	.82	.51	1.48	T	.05	-	.10	-	-	-	-	T	-	-	-	-	-	
WESTERN PACIFIC ISL. NORTH OF 12 N																																		
ANDERSEN AFB GUAM	3.30	T	T	.05	.05	.27	.19	T	.10	.11	.19	.05	-	.04	.03	T	.69	1.18	-	.06	-	.01	-	-	.01	.11	.04	-	T	.12	T	.01	.11	
CLARK AFB LUZON	4.26	-	.20	T	-	.02	-	-	-	.03	-	-	-	-	.36	-	-	.10	.40	-	.40	-	.25	T	.08	.12	1.84	.21	.03	T	-	.50	-	
GUAM NAS	3.91	-	-	-	T	.18	.04	T	T	-	T	T	T	-	T	T	.08	3.39	-	.07	-	-	.01	-	-	T	.14	-	-	-	-	T	-	
GUAM WSO	6.88	-	.03	.01	.09	.48	.63	.01	.24	.06	.02	.04	T	T	.02	-	.08	4.30	-	.34	-	-	-	-	-	.05	.36	T	-	-	.01	.11	-	
MANGILAO	5.34	-	-	-	-	-	.13	-	-	-	-	-	-	-	.30	.65	.20	-	.45	2.00	-	-	.03	-	-	.03	1.55	-	-	-	-	-	-	
QOTA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SAIPAN LORAN	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
WAKE WSO AP	1.60	-	.02	.07	.02	.04	.02	.27	T	T	-	.01	-	-	.62	-	T	.43	-	.02	T	.01	-	.02	.01	-	-	T	.01	T	.01	.02	-	
CAROLINE AND MARSHALL ISLANDS																																		
ANGUAR	8.88	.09	.02	-	.37	2.01	-	1.25	-	-	.37	.04	.16	-	.02	1.07	.42	.02	-	.65	.40	-	-	.03	.32	.15	.05	.02	.09	.81	.62	-	-	
ENIWEAT	.61	-	.01	.14	.02	-	-	.07	.01	-	.01	.01	.20	.19	-	-	.20	.10	1.35	.25	.03	T	.05	.05	-	.05	-	-	.02	.01	.07	-	-	
FALALOP I. ULITHI	-	1.25	.82	.84	.26	-	-	.07	.01	-	.01	.05	.20	.15	-	-	.20	.10	1.35	.25	.03	T	.05	.05	-	.05	-	-	-	-	-	-	-	
KAPINGMARANGI ATOLL	-	-	-	.65	.14	-	-	1.10	.55	.34	1.01	.15	.25	.28	-	-	.33	1.23	.27	.26	.75	-	.10	.52	-	.62	.92	.22	-	.20	.52	-	-	
KOROR WSO	11.36	.14	T	1.25	.23	1.12	-	.37	.63	.01	.21	.77	.48	.22	.42	.31	.52	.04	.35	T	.02	.01	.27	.01	.07	-	1.44	2.31	.16	T	-	-	-	
KUJALEIN MISSILE ROM	12.36	.05	1.18	2.86	.06	1.46	.35	.29	.70	.58	2.81	.02	.02	.04	.03	T	-	.01	T	T	.25	.01	.06	.05	-	.01	.71	T	-	-	.71	-	-	
LELE I. KUSAIE	-	.46	.98	.02	.01	.34	.57	.16	.98	.08	6.07	.06	-	.09	1.70	.18	-	.16	.31	.53	1.29	.09	.54	.18	.24	.03	.15	1.75	T	.74	.04	-	-	
MAJURO WSO AP	17.21	.82	.77	1.87	.21	.03	.39	.78	.70	1.01	2.19	.09	.07	.86	2.06	.39	T	.04	.07	.28	T	.24	1.01	.32	.12	.36	.91	.08	.82	.61	-	-	-	
METALANIM	16.42	.07	2.21	.55	.05	.51	-	2.63	2.13	.93	1.85	.06	.04	.10	.04	-	.01	.04	-	.95	.58	-	-	-	.37	.13	.82	.33	.81	.96	-	-	-	
MOKIL ATOLL	10.16	.05	.35	.01	.01	.38	.03	.26	.10	1.08	.10	.07	-	.26	.29	-	-	-	.50	.71	1.48	.05	.59	-	1.48	.05	.70	.20	.95	.45	-	-	-	
NGASANG-BABELTHURP	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
PONAPE WSO	26.17	.70	3.07	T	.04	.24	.01	2.15	.69	4.16	.32	.06	-	1.35	.12	.68	.04	.03	.40	T	1.32	.02	3.14	1.71	.06	.17	1.44	.20	1.43	1.08	1.41	.13	-	-
SATAVAN ATOLL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
TRUK. MOEN I. WSO AP	11.67	1.35	.09	T	1.71	.10	.02	-	.17	1.58	.58	.78	.99	.06	.31	.03	.02	T	.17	T	T	.73	T	.07	.29	.35	1.46	.21	-	-	.60	-	-	
WOLEAI ATOLL	10.35	.05	.09	.32	.04	.03	.48	1.71	-	-	.18	1.90	.04	.02	.29	-	.03	.28	-	.27	.27	.01	.01	.50	.40	1.13	.83	.20	.07	.18	1.02	-	-	
YAP WSO AP	10.36	.07	1.22	T	.01	1.39	-	T	.01	-	.01	T	.06	3.61	.16	.01	.04	.06	T	-	T	.01	.01	.01	-	-	1.67	2.01	-	T	-	-	-	-

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## DAILY TEMPERATURES

HAWAII AND PACIFIC  
MAY 1977

STATION		DAY OF MONTH																															AVERAGE
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
HAWAII																																	
ISLAND OF KAUAI																																	
KANALOHULU 1075	MAX MIN	67 49	69 57	69 47	70 52	69 55	63 57	70 54	68 55	68 52	66 54	67 55	69 57	67 56	69 48	70 49	68 47	68 46	72 56	71 53	73 52	67 55	68 55	67 54	70 54	72 51	71 57	73 56	74 56	73 53	76 50	72 51	69.5 53.0
KILAUEA POINT 1133	MAX MIN	80 70	80 70	80 69	80 68	79 70	79 66	80 70	80 69	81 71	79 67	75 66	81 70	80 70	84 68	83 70	80 71	80 69	83 71	82 70	80 71	81 70	79 67	79 71	78 71	80 72	80 68	82 72	80 75	82 70	82 71	80.4 69.7	
KOLOA LN (MAK) 940.1	MAX MIN	81 69	82 68	83 68	83 72	83 70	81 71	82 70	83 70	84 70	81 65	81 69	82 69	83 69	83 65	87 63	87 68	84 73	83 72	79 70	83 71	79 70	81 71	82 70	82 71	83 71	82 70	82 71	83 72	82 71	83 72	82 71	82.3 70.2
LIHUE WSO 1020.1 AP	MAX MIN	79 71	81 70	81 70	79 68	81 72	79 70	80 72	80 71	79 70	79 68	81 70	80 67	81 70	82 69	81 64	80 67	81 71	80 66	81 68	80 68	80 72	81 70	80 72	80 72	81 71	80 71	80 71	82 71	82 70	82 71	80.5 70.1	
MANA 1026	MAX MIN	84 62	85 61	83 62	83 63	83 65	82 67	83 64	84 64	85 64	82 65	81 66	80 69	81 69	82 65	83 67	83 63	83 65	83 63	87 62	86 65	85 66	86 64	87 64	85 63	85 63	84 67	85 63	85 64	86 64	88 67	88 64	83.9 64.6
NIU RIDGE 1035	MAX MIN	83 55	86 56	82 59	82 61	82 61	82 61	85 60	80 60	80 58	80 58	80 58	80 58	80 58	80 58	80 58	83 59	83 60	84 61	83 59	83 62	83 62	83 62	83 62	83 62	83 62	83 62	83 62	83 62	83 62	83 62	85 60	85 59
WAIHI LOWER 1054	MAX MIN	72 59	72 61	72 61	70 64	71 65	71 65	72 62	72 65	70 63	70 62	72 65	71 67	76 62	77 58	77 60	77 58	79 58	79 58	74 66	73 65	73 65	72 65	72 65	73 65	73 64	74 63	73 66	71 64	74 65	74 65	75 64	73.4 62.9
ISLAND OF OAHU																																	
ALOMA STADIUM-HALAWA	MAX MIN				79 68	81 68	82 69				83 69	81 68	80 68	82 68	81 69		86 67	85 67	88 68	90 68	84 72			84 66	85 68	85 67	83 71	84 70					84 69
B Y U LAIE 903.1	MAX MIN	81 71	80 70	80 71	79 69	81 70	81 69	80 70	81 69	81 68	80 68	80 69	80 69	84 67	83 66	81 67	82 72	82 73	82 70	82 65	83 74	82 73	83 70	82 72	81 71	82 71	82 71	82 71	82 71	83 72	83 71	82 72	81.5 70.0
EWA PLANTATION 741	MAX MIN		85 62	83 64	83 66	85 67	85 68				85 65	87 66	79 67	80 68	80 68		85 64	83 64	85 64	85 65	85 66	83 67	81 68	85 69	83 64	85 68	83 68	85 68	80 68	82 67	85 68	84 68	83.5 66.5
HONOLULU WSO 703 AP	MAX MIN	84 70	83 69	84 69	85 70	85 71	83 71	85 72	84 71	86 70	80 69	81 69	81 71	82 71	82 70	85 69	84 70	83 68	84 69	85 70	85 73	85 72	85 73	85 70	85 74	85 72	85 73	84 73	86 72	86 74	85 73	85 72	84.1 71.0
KANEHE MAUKA 781	MAX MIN	79 69	79 69	75 68	75 66	78 67	78 69	74 70	78 69	78 69	77 68	79 72	79 72	81 73	79 68	82 69	80 70	80 68	79 69	83 69	80 72	79 69	78 72	78 69	78 71	80 70	78 71	78 71	79 71	79 71	79 69	78.7 69.7	
MANDA LYON ARBORETUM	MAX MIN	78 67	77 65	75 65	75 65	75 66	72 66	77 67	77 65	79 66	79 65	80 67	80 67	78 66	79 66	80 65	82 67	84 64	85 63	85 68	82 66	76 67	73 66	75 64	75 65	78 67	79 66	74 67	79 67	77 66	79 66	78.0 65.8	
OPAEULA 870	MAX MIN	86 64	80 63	80 62	80 62	80 61	80 63	80 62	80 62	80 63	80 62	80 64	80 65	80 64	79 62	79 61	80 62	80 64	79 62	79 62	79 62	79 62	79 62	79 62	79 62	79 62	79 62	79 62	79 62	79 62	79 62	79.4 63.7	
WAIALEE 896.3	MAX MIN																																
WAIALUA 847	MAX MIN	80 60	80 61	80 58	80 63	82 63	81 66	79 66	83 61	82 66	83 64	74 66	80 68	78 67	83 67	82 65	85 63	84 61	83 62	84 63	87 63	83 64	82 66	82 66	81 63	82 66	81 63	82 66	80 61	84 65	85 66	84 64	81.8 64.2
WAIKIKI 717.2	MAX MIN	84 66	83 67	84 65	83 68	85 70	85 70	84 68	85 69	86 69	85 68	83 68	82 71	83 68	84 67	83 65	84 65	85 65	85 65	86 66	84 70	84 70	86 68	82 68	83 70	83 69	84 70	85 70	84 71	86 69	85 70	85 70	84.2 68.3
WAIMANALO EXP FARM	MAX MIN	79 49	80 69	78 67	78 68	79 68	80 68	76 66	80 68	79 68	80 67	78 67	79 68	82 67	79 68	82 68	79 70	81 68	82 65	82 67	81 70	80 69	79 70	80 68	80 69	81 71	80 71	80 71	81 71	82 72	80 71	80.0 68.1	
ISLAND OF MOLOKAI																																	
MOLOKAI AP 524	MAX MIN	82 61	81 66	81 66	82 64	82 64	83 68	83 67	81 70	84 67	86 65	82 68	82 68	82 66	82 68	84 65	85 62	85 64	85 65	87 64	85 61	84 68	83 69	83 67	81 69	80 68	81 69	83 69	83 69	84 69	84 69	85 68	83.1 66.5
ISLAND OF LANAI																																	
LANAI AIRPORT 656	MAX MIN																																
LANAI CITY 672	MAX MIN																																
ISLAND OF MAUI																																	
HALEAKALA RS 338	MAX MIN	62 43	65 41	62 39	60 38	63 44	62 46	62 42	62 43	61 42	60 43	59 43	60 44	64 47	61 42	64 41	64 43	62 44	63 43	60 40	63 44	66 46	60 42	64 39	68 40	69 50	70 52	70 54	75 48	68 54	71 48	71 55	64.2 44.5
HANA AIRPORT 355	MAX MIN	80 67	80 62	80 66	80 67	80 68	80 69	78 69	81 71	80 69	80 67	79 67	77 64	82 70	83 69	82 69	80 70	82 70	82 71	82 69	82 71	82 69	81 68	82 67	82 68	82 68	82 68	82 70	81 69	81 70	81 70	80.9 68.6	
KAAHAPALI AP 453.1	MAX MIN	81 66	80 62	80 63	79 64	81 66	81 66	80 66	82 67	82 67	83 66	80 67	81 65	81 68	80 67	81 65	82 64	83 65	85 65	83 65	83 69	85 68	82 68	80 68	82 68	82 66	82 65	79 67	83 67	81 68	82 68	82 68	81.5 66.2
KAHULUI WSO 398 AP	MAX MIN	81 70	83 68	82 64	85 65	83 66	82 71	85 70	84 71	89 67	85 67	85 67	84 65	82 67	81 69	86 65	87 63	83 64	88 66	87 64	83 67	82 70	81 70	83 70	82 70	81 68	82 68	82 68	83 70	84 70	83 68	83 68	83.7 67.8
KAILUA 446	MAX MIN		76 66	76 64	75 66	76 68	76 65				75 66	75 67	75 68	75 67	78 68		79 65	78 64	76 66	79 67	78 66			78 64	75 66	77 66	77 66	76 66			77 67	77 66	76.5 66.2
KEAWAKAPU BEACH 260.2	MAX MIN	82 61	86 60	86 60	84 62	85 64	85 65	85 64	88 63	88 64	87 66	85 70	86 64	87 70	83 67	85 66	86 65	85 66	85 66						90 64	87 63	87 64	87 66	90 64	85 64	88 65	86.4 64.7	
KULA SANATORIUM 267	MAX MIN	70 55	70 55	70 54	71 55	69 58	60 59	72 57	73 58	71 59	72 60	69 61	71 61	72 53	71 54	70 57	68 56	72 61	73 62	73 62	74 56	73 57	74 61	72 57	72 55	73 56	70 56	72 56	72 55	75 56	72 51	73 52	71.3 56.9

SEE REFERENCE NOTES FOLLOWING STATION INDEX

# DAILY TEMPERATURES

HAWAII AND PACIFIC  
MAY 1977

STATION		DAY OF MONTH																															AVERAGE	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
HAWAII																																		
LAHAINA 361	MAX MIN	85 69	83 68	85 65	83 69	85 72	86 64	86 66	86 64	84 68	85 71	85 69	86 71	85 67	86 66	86 66	86 67	85 68	86 68	86 66	87 66	88 64	85 66	85 65	85 67	86 68	88 67	86 66	86 64	85 68	85 67	85.5 67.1		
WAILUKU 386	MAX MIN		78 66	80 67	77 67	80 69	81 69		80 68	83 66	82 68	82 66	84 69			86 66	83 66	82 67	83 69	83 71			81 68	80 68	81 69	80 70	79 70			82 70	80 70	81.2 68.1		
* * *																																		
ISLAND OF HAWAII																																		
HAWAII VOLCNS NP HQ 54	MAX MIN	64 49	65 48	65 49	69 52	67 52	67 54	61 53	66 51	68 51	67 51	63 54	68 49	71 55		68 53	67 51	70 48	73 57	67 51	69 52	66 52	64 53	65 50	64 51	68 49	68 49	70 52	70 53	71 52	72 54	70 53	67.4 51.6	
HILO WSO 87 AP	MAX MIN	81 63	79 64	85 61	84 65	83 67	80 68	84 68	83 65	84 64	78 67	75 68	84 62	86 69	84 66	86 66	87 68	84 69	82 67	82 66	79 67	83 67	84 67	85 67	85 65	84 64	86 67	82 69	85 64	84 67	84 68	83.1 66.3		
KAINALIU 73.2	MAX MIN	76 57	75 60	73 58	75 57	76 61	76 59	73 63	74 62	75 60	75 59	76 61	74 59	75 60	76 60	76 60	73 63	76 59	79 62	75 59	77 61	76 59	77 61	78 62	78 60	79 60	77 59	78 59	77 62	78 61	79 62	78 62	76.1 60.2	
KAMUELA 192.2	MAX MIN		73 55	69 55	73 50	72 50	70 54			70 53	71 55	74 56	73 53	78 54			71 56	75 55	78 53	78 59	75 56			71 57	70 58	70 58	71 55	70 55			71 56	70 59	72.4 55.1	
KAPOHO BEACH 93.11	MAX MIN																																	
KERAU 92	MAX MIN	75 62	77 61	76 59	80 61	80 63	79 64	77 66	80 64	79 63	80 64	76 65	73 62	81 65	81 67	78 65	80 64	82 64	80 65	79 65	79 64	77 66	79 63	79 64	79 64	80 64	81 66	79 65	80 65	78 65	78 65	78 65	78.8 64.1	
KEALAKEKUA 2 28.7	MAX MIN	75 60	75 60	74 60	77 61	77 63	72 60		76 62	74 60	76 62	75 63	73 60	76 61	75 61	77 61	74 64	76 63	80 64	76 63	79 63		76 61	77 62	78 61	79 62	78 60	79 60		79 63	79 61	79 63	76.5 61.6	
KOHALA MISSION 175.1	MAX MIN	77 66	77 64	76 62	78 62	78 67	78 66	77 66	78 62	77 65	79 64	78 67	76 64	82 66	81 66	81 65	79 65	80 62	81 65	81 65	78 64	78 68	77 67	75 66	78 66	77 65	78 65	78 65	78 66	78 67	75 66	79 67	78.2 65.3	
KONA (KAILUA) 68.3	MAX MIN		84 67			81 68	83 69			83 69	84 70	82 71	79 67	84 68			81 68	81 69	81 70	82 69	82 71			84 68	82 70	85 68	83 69	84 69				85 70		
KULANI CAMP 79	MAX MIN	60 43	60 40	59 40	61 46	57 49	61 55	57 51	59 44	61 46	61 50	62 52	59 48	79 42	69 46	69 59	59 45	64 43	61 45	64 45				60 46	59 49	60 47	60 44	61 38	62 37	64 42	62 42	56 45	64 45	62.4 46.5
MAUNA LOA SLOPE OBS	MAX MIN	50 34	51 34	51 34	56 35	52 34	50 34	48 34	50 33	48 31	52 38	46 39	49 36	50 36	48 33	52 32	55 34	52 32	52 37	54 38					60 43	58 42	60 44	60 43	59 42	56 42	58 40	58 41	53.1 36.9	
MOUNTAIN VIEW 91	MAX MIN	73 57	73 57	69 55	78 57	77 60	76 60	70 62	77 59	77 59	76 59	72 60	72 59	77 62	78 62	78 58	78 58	79 59	80 62	72 60	76 59	74 60	76 59	74 60	75 59	77 59	78 58	79 62	78 59	78 59	77 62	75.8 59.4		
NAALEHU 14	MAX MIN		75 59		76 65	78 65	77 67			77 66	77 65	74 65	71 65	77 65			77 64	78 65	80 65	75 64	76 63			77 65	78 65	78 61	75 64	78 64			78 61	76 65		
OOKALA 223	MAX MIN	74 67	77 64	75 64	79 64	78 65	78 67	80 66	77 65	78 65	77 66	74 65	79 65	80 65	75 60		79 67	80 66	79 65	79 65	78 65	79 65	78 65	78 65	78 65	78 65	78 65	78 65	78 65	79 65	79 65	77.8 65.4		
OPIHIHALE 2 24.1	MAX MIN	75 64	73 59	78 60	79 63	78 61	76 65	77 62	75 65	78 64	76 63	72 60	77 60	80 64	80 63	77 63	77 60	81 65	77 65	80 64	77 65	80 60	82 62	77 60	81 59	80 59	77 64	80 64	77 60	80 66	80 66	78.1 62.3		
PAHALA 21	MAX MIN		78 58	77 59	79 62	79 64	79 64			78 62	77 64	75 65	73 61	78 64			78 60	79 64	81 65	74 62	77 63			81 64	81 61	80 58	79 58	79 62			81 62	79 62	78.3 62.1	
PUUKOHOLA HEIRU 98.1	MAX MIN	87 66	88 64	88 64	85 69	85 67	85 67	85 71	91 67	91 65	91 65	84 65	80 64	85 63	85 68	85 67		85 66	87 71	87 67	85 68	92 68	92 66	92 69	92 66	92 66	93 72	86 67	90 67	90 67	90 66	87.9 67.1		
SOUTH KONA 2.31	MAX MIN	75 56	70 51	72 55	73 58	73 58		76 57	76 60	78 58	77 61	73 60	72 60	79 56	78 55	72 58	74 60	76 57	82 58	70 60	75 58	73 59	74 58		79 53	77 55	77 54			79 55	80 57	80 56	75.2 57.2	
UPOLU POINT USCG 159.2	MAX MIN	78 66	78 66	79 64	80 64	80 69	80 68	80 69	80 69	80 67	82 69	82 70	79 67	85 72	83 62	84 67	82 67	83 67	85 71	85 67	81 70	82 69	80 67	81 68	80 68	81 67	82 66	82 65	80 65	80 67	82 67	81 69	81.2 67.8	

SEE REFERENCE NOTES FOLLOWING STATION INDEX

# DAILY TEMPERATURES

HAWAII AND PACIFIC  
MAY 1977

STATION		DAY OF MONTH																															AVERAGE	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
PACIFIC																																		
• • •																																		
EAST OF 180TH MERIDIAN																																		
CANTON ISLAND	MAX MIN	90 81	89 81	88 81	89 81	90 80	90 79	90 81	90 81	90 82	91 81	90 80	87 80	89 80	89 81	90 82	91 80	90 80	90 80	90 79	90 80	90 80	90 79	88 79	88 80	89 81	89 81	89 81	89 81	90 81	89.5 80.6			
JOHNSTON WSO AP	MAX MIN	82 77	82 76	82 76	82 74	82 76	82 76	83 77	83 74	83 75	83 76	83 76	83 76	83 77	83 74	83 73	84 75	83 76	83 76	83 75	83 74	83 73	83 72	83 76	83 76	83 73	82 71	83 73	82 74	82 77	83 74	82.7 75.2		
LEONE	MAX MIN	91 82	93 83	91 83	89 81	89 79	84 78	90 82	89 83	91 83	86 77	83 73	87 80	87 79	86 74	86 75	87 75	85 78	88 79	87 78	90 80	90 80	88 79	88 80	87 77	87 78	84 77	88 81	84 78	84 77	86 77	87 79	87.5 78.9	
FRENCH FRIGATE SHOALS	MAX MIN	78 72	78 70	80 70	80 72	77 72	78 74	79 68	79 71	81 69	80 68	80 67	81 64	80 69	80 70	73 65	79 66	78 70	83 71	82 70	76 69	78 74	79 61	79 60	79 60	78 61	79 62	78 64	79 65	80 73	80 71	80 73	79.3 68.1	
MIDWAY SAND ISLAND	MAX MIN	78 68	77 66	73 64	78 69	78 70	76 66	77 68	76 68	75 67	78 65	73 64	72 64	74 63	74 64	77 65	77 61	73 63	75 65	72 65	73 66	80 70	80 70	77 69	81 69	80 68	80 72	78 73	79 71	79 73	79 77	77 69	76.6 67.5	
PAGO PAGO WSO AP	MAX MIN	88 75	88 76	88 75	86 74	88 75	82 74	86 74	88 75	87 73	85 76	84 75	85 75	84 71	86 71	81 72	82 75	83 76	84 72	86 71	86 78	86 70	87 71	85 71	85 69	85 68	85 70	86 70	83 78	83 76	84 76	85 78	85.2 73.5	
• • •																																		
WESTERN PACIFIC ISL. NORTH OF 12 N																																		
ANDERSEN AFB GUAM	MAX MIN	81 76	83 76	84 76	82 76	82 75	82 76	82 76	82 75	82 75	82 76	84 77	82 75	82 74	80 72	83 74	83 75	83 76	83 76	83 75	83 74	83 75	83 75	83 75	83 75	84 75	83 76	83 75	84 75	83 77	82 77	84 78	83 76	82.5 75.5
CLARK AFB LUZON	MAX MIN	95 77	90 79	95 75	93 77	93 77	91 79	97 77	97 75	90 77	95 77	91 77	93 77	95 79	97 75	93 79	91 77	95 77	88 75	88 73	90 75	95 77	90 75	91 75	90 75	88 75	88 75	88 75	88 73	90 73	88 75	86 73	91.7 76.0	
GUAM NAS	MAX MIN	86 78	87 78	88 78	85 77	86 78	86 78	86 78	87 78	88 77	86 78	86 77	87 78	86 77	85 77	87 77	87 75	81 75	87 76	87 76	87 78	89 77	87 78	88 77	87 77	87 77	87 77	86 77	88 77	87 79	88 79	87 79	86.7 77.5	
GUAM WSMO	MAX MIN	86 75	87 74	87 74	86 74	87 74	85 71	85 73	85 73	86 71	85 72	86 72	85 72	86 73	85 69	87 66	88 72	81 72	87 73	87 71	87 71	87 67	88 69	87 69	87 69	86 69	86 74	87 75	87 70	88 70	88 68	87 70	86.4 71.4	
SAIPAN LORAN	MAX MIN																																	
WAKE WSO AP	MAX MIN	85 74	84 73	86 72	85 74	84 72	85 72	85 71	85 74	85 73	85 75	86 74	86 71	85 75	88 76	86 76	86 75	87 75	87 74	88 76	88 76	88 75	87 75	88 75	87 75	89 74	89 76	87 76	88 75	89 75	89 74	89 74	86.5 74.2	
• • •																																		
CAROLINE AND MARSHALL ISLANDS																																		
ENIWETAK	MAX MIN	86 80	85 81	85 80	83 79	84 81	85 81	84 80	83 80	85 80	83 80	84 80	85 81	81 80	83 80	89 81	87 81	88 81	88 82	86 81	87 81	88 81	87 81	87 81	88 81	88 81	85 81	86 81	87 81	85 82	85 81	86 82	85.5 80.8	
FALALOP I. ULITHI	MAX MIN		88 79	87 82	86 78	87 80	86 81	86 82	85 81	87 80	88 80	88 76	88 80	88 80	88 76	89 80	87 80	88 80	88 80	87 77	89 80	89 80	89 80	89 80	89 80	87 70	88 76	89 80	89 80	88 76	88 76	87.9 79.0		
KAPINGAMARANGI ATOLL	MAX MIN	84 74	87 76	87 72	89 74	90 76	90 77	91 76	90 73	89 73	88 73	90 78	90 76	90 74	90 73	89 76	91 75	90 74	89 73	88 74	85 72	87 77	88 76	89 73	88 74	88 74	87 74	88 72	87 74	88 75	88 77	88.3 74.6		
KOROR WSO	MAX MIN	91 76	90 78	89 78	88 75	89 76	85 75	89 78	89 75	90 79	88 77	87 75	88 77	87 76	88 76	89 76	89 77	90 80	89 76	89 76	90 77	90 78	90 77	91 77	90 78	90 78	90 78	90 78	89 76	89 75	89 77	89 76	89.1 76.8	
KWAJALEIN MISSILE RGN	MAX MIN	87 77	84 75	81 74	86 77	86 74	85 74	86 76	86 74	85 76	80 73	86 77	87 78	86 79	86 78	87 79	88 79	88 79	88 79	87 79	87 80	87 78	86 78	86 79	86 77	87 79	87 77	87 75	87 77	87 78	86 75	86 75	86.2 77.2	
LELE I. KUSAIE	MAX MIN	88 71	89 74	88 72	90 71	90 79	87 74	90 74	90 70	88 64	83 67	87 76	89 72	89 70	88 63	89 72	89 74	87 75	87 72	87 73	88 74	88 74	88 74	88 74	88 74	88 74	88 74	88 73	88 74	88 69	87 69	88.4 72.0		
MAJURO WSO AP	MAX MIN	84 75	85 74	85 73	85 74	85 74	86 74	86 75	83 74	86 75	85 73	86 78	88 75	82 76	86 76	86 75	86 76	86 78	86 78	86 74	86 73	86 75	86 75	86 75	86 75	86 75	86 75	86 75	86 75	86 75	86 75	85.3 74.9		
METALANIM	MAX MIN	86 77	83 75	86 75	85 75	85 74	86 74	85 73	83 74	87 74	87 75	87 77	88 75	87 75	88 74	88 75	87 74	87 80	87 81	87 75	87 73	87 74	86 80	88 81	88 79	88 74	88 74	85 79	84 74	85 74	85 74	86.5 75.9		
PONAPE WSO	MAX MIN	88 76	82 74	88 75	89 74	87 78	87 77	87 74	87 73	84 73	88 74	89 77	89 78	88 75	88 74	89 74	89 73	90 74	89 77	89 77	89 73	89 73	88 73	88 73	89 74	89 74	88 78	88 75	88 74	89 74	89 75	89 74	87.6 74.9	
SATAWAN ATOLL	MAX MIN																																	
TRUK. MOEN I. WSO AP	MAX MIN	86 74	88 78	88 79	82 74	88 78	87 77	87 79	87 77	82 75	87 75	87 76	86 74	90 77	89 76	88 77	90 76	90 76	88 77	89 77	89 79	89 79	88 75	88 76	88 77	88 75	88 77	88 77	88 75	89 74	89 74	89 75	87.6 76.4	
WOLEAI ATOLL	MAX MIN	89 78	90 78	88 77	87 76	89 79	89 78	88 74	88 80	89 81	90 78	88 75	86 77	89 79	89 76	88 76	89 76	88 74	88 76	87 73	87 76	88 78	88 76	88 74	88 72	88 76	88 75	88 75	88 75	88 75	88 75	88.2 76.2		
YAP WSO AP	MAX MIN	89 77	90 78	82 75	89 76	87 76	89 73	89 75	88 77	88 77	89 77	88 77	88 76	84 72	85 70	88 76	88 72	85 74	87 74	88 72	88 77	88 75	88 74	88 72	87 70	88 73	89 75	82 72	88 74	89 78	89 76	89 75	87.7 74.7	

SEE REFERENCE NOTES FOLLOWING STATION INDEX

# EVAPORATION AND WIND

HAWAII AND PACIFIC  
MAY 1977

STATION	DAY OF MONTH																															TOTAL OR AVG.	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
HAWAII																																	
ISLAND OF KAUAI																																	
LIHUE W50 1020.1 AP	EVAP	.27	.36	.36	.34	.29	.33	.20	.33	.31	-	-	.10	.53	.26	.37	.26	.20	.24	.31	.45	.24	.40	.47	.46	.39	.17	.20	.42	.35	.31	9.546	
	WIND	210	197	167	161	209	238	218	218	210	128	96	153	179	85	124	107	75	91	190	242	278	291	296	251	207	205	206	220	224	142	5516	
	MAX	85	86	87	87	84	85	79	87	84	83	76	87	-	86	88	88	89	89	89	82	82	84	85	86	86	86	85	86	86	86	85.4	
	MIN	64	64	65	65	67	68	66	68	67	65	64	67	-	64	67	68	65	66	65	68	65	68	68	68	67	68	66	67	67	68	66	66.3
ISLAND OF OAHU																																	
HONOLULU OBSERV 702.2	EVAP	.45	.45	.30	.38	.45	.35	.30	.45	.45	.29	.15	.33	.09	.17	.25	.30	.23	.28	.30	.30	.34	.30	.34	.45	.42	.30	.30	.35	.36	.35	.45	10.23
	WIND	35	35	28	31	37	44	38	45	36	32	41	85	43	45	25	24	39	33	24	40	48	49	59	54	49	31	35	37	36	32	35	1227
	MAX	92	91	88	88	91	90	87	91	88	87	85	88	85	90	92	94	92	95	94	91	93	89	91	91	92	88	92	89	92	94	94	90.5
	MIN	64	64	64	66	67	69	66	68	68	68	69	69	71	69	68	67	67	68	70	68	67	67	67	67	65	68	69	67	68	68	69	67.5

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# EVAPORATION AND WIND

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STATION		DAY OF MONTH																															TOTAL OR AVG.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
PACIFIC																																	
• • • EAST OF 180TH MERIDIAN																																	
JOHNSTON WSO AP	EVAP	.40	.34	.39	.38	.39	.30	.35	.35	.32	.30	.31	.32	.37	.34	.35	.40	.36	.33	.33	.37	.46	.50	.41	.39	.28	.31	.43	.34	.42	.34	.40	11.28
	WIND	225	237	223	217	189	230	243	197	160	98	72	83	119	122	134	136	161	141	172	198	199	232	247	267	231	232	219	194	256	222	216	5872
	MAX	91	88	90	90	90	91	92	92	92	96	95	92	93	94	94	90	93	95	92	92	87	87	92	95	89	88	88	88	88	88	89	91.1
	MIN	72	72	71	71	70	70	72	72	71	72	71	68	72	72	72	72	72	72	72	74	73	72	71	72	72	71	71	72	71	72	71	71.5
• • • WESTERN PACIFIC ISL. NORTH OF 12 N																																	
GUAM WSMO	EVAP	.30	.34	.32	.31	.25	.28	.21	.28	.33	.37	.33	.25	.30	.19	.22	.20	.18	-	.25	.36	.24	.33	.26	.37	.27	.28	.15	.30	.30	.19	.25	6.488
	WIND	155	173	197	185	182	232	182	194	186	195	177	169	166	97	50	32	53	43	134	31	38	42	36	38	76	142	153	89	55	56	70	3634
	MAX	91	92	90	90	90	88	87	88	88	88	89	87	91	88	91	92	95	88	95	97	95	87	96	97	92	92	92	94	94	93	95	91.4
	MIN	71	72	73	73	71	73	71	72	71	73	71	72	72	72	73	69	74	75	72	74	74	71	73	72	73	73	72	72	71	70	71	72.1

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								TEMP.	PRECIP.	EVAP.	SPECIAL (SEE NOTES)		
HAWAII													
ISLAND OF KAUAI													
ALEXANDER RESV. 983	0140	02	KOLOA	2	21 57	159 32	1610					C	MCBRYDE SUGAR CO.
ANAHOLA 1114	A 0145	01	KAWAIIHAU	1	22 08	159 18	180		7A			C	LIHUE PLANTATION CO
BRYOESWOOD SIA 985	A 0240	02	KOLOA	2	21 56	159 32	720		7A				MC BRYDE SUG CO LTD
EAST LAWA 934	A 0456	02	KOLOA	2	21 55	159 30	440		7A				MC BRYDE SUG CO LTD
ELEELE 927	A 0470	02	KOLOA	2	21 54	159 35	163		6A				MC BRYDE SUG CO LTD
HALAULA 1110	A 0935	01	KAWAIIHAU	1	22 07	159 19	253		7A				LIHUE PLTN CO LTD
HALENANAO 1006	A 1038	02	LIHUE	2	21 58	159 26	490		8A				LIHUE PLANTATION CO
HANAIEI TUNNEL 1053	A 1170	01	KAWAIIHAU	1	22 05	159 28	1218					5	LIHUE PLTN CO LTD
HUKIPO 945	2161	03	WAIMEA	3	21 59	159 41	800		8A				KEKAHA SUGAR CO LTD
ILIILILUA INTAKE 1050	A 2222	02	LIHUE	2	22 02	159 28	1050		VAR				LIHUE PLTN CO LTD
INTAKE WAINIHA PC 1086A	2227	01	HANAIEI	1	22 09	159 34	690		WI				MC BRYDE SUG CO LTD
KANALOHULUHULU 1075	3099	03	WAIMEA	3	22 08	159 40	3600	7A	7A			C	STATE DIVISION OF PARKS
KANEHA RESERVOIR 1092	A 3104	01	KAWAIIHOU	1	22 08	159 23	830		7A				LIHUE PLANTATION
KAPAA STABLES 1104	A 3159	01	KAWAIIHAU	1	22 05	159 20	175		7A			C	LIHUE PLTN CO LTD
KEALIA 1112	A 3982	01	KAWAIIHAU	1	22 06	159 19	9		7A				LIHUE PLTN CO LTD
KEKAHA 944	4272	03	WAIMEA	3	21 58	159 43	9		8A			C	KEKAHA SUGAR CO LTD
KILAUEA 1134	A 4561	01	HANAIEI	1	22 13	159 25	320		7A			C	NICK RAPOZO
KILAUEA POINT 1133	4568	01	HANAIEI	1	22 14	159 24	180	8A	8A				MELVALEIGH SEILLEMAKER
KOLO 1033	4735	03	WAIMEA	3	22 04	159 46	36		7A				KEKAHA SUGAR CO LTD
KOLOA 936	A 4742	02	KOLOA	2	21 55	159 28	240		8A				MCBRYDE SUGAR CO
KOLOA LN (MAK) 940.1	4748	01	KAUAI	2	21 52	159 27	52	7A	7A				AUSCG LORAN STATION
KOLOA MAUKA 994	A 4750	02	KOLOA	2	21 57	159 29	640		7A				MCBRYDE SUGAR COMPANY
KUKULULA 935	A 4950	02	KOLOA	2	21 54	159 30	100		6A				MC BRYDE SUG CO LTD
LIHUE VARIETY ST 10621A	5560	02	LIHUE	2	22 01	159 23	380		7A			C	LIHUE PLANTATION CO LTD
LIHUE 1020	A 5575	02	LIHUE	2	21 59	159 22	207		7A				LIHUE PLTN CO LTD
LIHUE W50 1020.1 AP	R 5580	02	LIHUE	2	21 59	159 21	103	M10	M10	M10C	J		NATL WEATHER SERVICE
MAKAKELI 965	A 5864	03	WAIMEA	3	21 55	159 38	140		7A				OLOKELE SUGAR CO
MANA 1026	6082	03	WAIMEA	3	22 02	159 46	20	8A	8A				KEKAHA SUGAR CO LTD
MOHIHI UPR CROSS 1083	A 6433	01	WAIMEA	3	22 07	159 36	3500		M10				U S GEO SURVEY
MOLOKA 1145	A 6529	01	KAWAIIHAU	1	22 11	159 20	330		7A				THEODORE JAVELLANA JR
MOUNT WAIALEALE 1047	R 6565	03	WAIMEA	2	22 04	159 30	5148		M10				U. S. GEO. SURVEY
NIU RIDGE 1035	6850	03	WAIMEA	3	22 02	159 44	1250	6A	6A				KEKAHA SUGAR CO LTD
N WAILUA DITCH 1051	A 6888	02	LIHUE	2	22 04	159 28	1110		7A				LIHUE PLTN CO LTD
N WAILUA RIVER 1055	A 6893	02	KIHUE	2	22 04	159 26	650					5	LIHUE PLTN CO LTD
PH WAINIHA 1115	8155	01	HANAIEI	1	22 12	159 34	101		6A			C	MC BRYDE SUG CO LTD
PRINCEVILLE RANCH 1117	8165	01	HANAIEI	1	22 13	159 29	295		9A			C	PRINCEVILLE RANCH INC
PUEHU RIDGE 1040	8205	03	WAIMEA	3	22 01	159 42	1660		8A				KEKAHA SUGAR CO LTD
PUHI 1013	A 8217	02	LIHUE	2	21 58	159 24	329		8A				LIHUE PLANTATION CO
STABLE CAMP 1055.1	8694	02	LIHUE	2	22 04	159 27	740					C	LIHUE PLANTATION CO LTD
WAIHAWA 930	A 8941	02	KOLOA	2	21 54	159 34	215		7A			C	MC BRYDE SUG CO LTD
WAIHI LOWER 1054	8958	02	LIHUE	2	22 01	159 27	565	6A	6A				LIHUE PLTN CO LTD
WAIHI UPPER 1052	8966	02	LIHUE	2	22 01	159 28	780		6A				LIHUE PLTN CO LTD
WAIHAWA 943	9253	03	WAIMEA	3	21 59	159 43	10		8A				KEKAHA SUGAR CO LTD
WAILUA KAI 1065	A 9467	02	LIHUE	2	22 02	159 21	50		7A				LIHUE PLANTATION
WAIMEA 947	9629	03	WAIMEA	3	21 58	159 41	20		8A				KEKAHA SUGAR CO.
WEST LAWA 931	A 9955	02	KOLOA	2	21 54	159 31	210		6A				MC BRYDE SUG CO LTD
ISLAND OF OAHU													
AHUIMANU LOOP 839.12	0055	01	KOOLAUPOKO	1	21 26	157 51	320						DON MITCHELL
ALOHA STADIUM-HALAWA	0172	03	OAHU	3	21 23	157 56	40	8A	8A			C	ALOHA STADIUM
BERETANIA PUMPING STA	0211	02	HONOLULU	2	21 19	157 51	20		9A				BOARD OF WTR SUPPLY
B Y U LAIE 903.1	0240	01	KOOLAUPOKO	1	21 39	157 56	20	12M	12M				B Y U-HAWAII CAMPUS
CAMPBELL 1ND PK 702.5	0248	02	OAHU	3	21 19	158 07	10		8A				CHEVRON U S A INC
CAMP 84 807	A 0300	03	EWA	3	21 26	158 04	760		6A			C	DEL MONTE CORPORATION
COCONUT ISLAND 840.1	0350	01	KOOLAUPOKO	1	21 26	157 47	15		8A				H INST MARINE BIOLOGY
DOWSETT HIGHLDS 780.8	0438	02	HONOLULU	2	21 21	157 50	565					C	J.L. BANNING
EWA PLANTATION 741	0507	03	EWA	3	21 21	158 02	5	9A	7A				OAHU SUGAR COMPANY
HALAWA SHAFT 771.2	0964	02	HONOLULU	2	21 23	157 54	170					C	BOARD OF WATER SUPPLY
HELEMANO INTAKE 881	A 1384	05	WAIALUA	5	21 33	158 00	1274		WI			C	WAIALUA SUGAR CO. INC.
HOKULOA 725.2	A 1540	03	EWA	3	21 24	158 06	2220					C	H. V. VON HOLT
HONOLULU OBSERV 702.2	1918	03	EWA	3	21 19	158 00	5		9A	9A			NATIONAL WEATHER SERV
HONOLULU W50 703 AP	A 1919	02	HONOLULU	2	21 20	157 55	7	M10	M10			C	NATL WEATHER SERVICE
KALAKEI 724.6	2269	02	HONOLULU	2	21 18	157 43	10					C	MRS. MILLIE ZAPATA
KAENA POINT 841.3	2410	04	WAIALUA	4	21 34	158 15	1240		9A				U S AIR FORCE
KAHANA 883	A 2462	01	KOOLAULOA	1	21 31	157 54	800		WI				WAIHOLE WTR CO LTD
KAHUKU 912	A 2570	01	KOOLAULOA	1	21 42	157 59	15					C	KIULIMA HOTEL

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								TEMP.	PRECIP.	EVAP.	SPECIAL (SEE NOTES)	
ISLAND OF OAHU												
KAILUA FIRE STA 791.3	2683	01	KOOLAUPOKO	1	21 24	157 45	10		8A		C	KAILUA FIRE STATION GRADEN HARGER BOARD OF WTR SUPPLY STATE HOSPITAL KAMEHAMEHA SCHOOLS WAIALUA SUGAR CO. INC. WAIALUA SUGAR CO. INC. C & F OFFICER HEOG NATIONAL WEATHER SERV HAROLD ROBERTS
KALAMA VALLEY 724-13	2842	02	OAHU	2	21 18	157 41	75				C	
KALIHI RES SITE 777	R 2960	02	HONOLULU	2	21 23	157 50	910		MIO			
KANEHOE MAUKA 781	3113	01	KOOLAUPOKO	1	21 25	157 49	325	7A	7A			
KAPALAMA 773	A 3268	02	HONOLULU	2	21 21	157 52	614		8A			
KAWAIHAPAI 841	A 3734	05	WAIALUA	5	21 35	158 11	40		7A			
KEMOO CAMP 8 855	A 4318	05	WAIALUA	5	21 33	158 05	725		7A			
KOOLAU DAM 833	A 4766	05	WAIHAWA	5	21 30	157 58	1160		8A			
LULUKU 781.7	5655	01	KOOLAUPOKO	1	21 24	157 49	240				C	
MAKAHA KAI 796.1	A 5766	04	WAIANAE	4	21 28	158 13	15		7A			
MAKAHA VALLEY 800.1	A 5781	04	WAIANAE	4	21 29	158 12	160		8A		C	CLOSED 2/26/69 CAPITAL INVESTMENT CO. NEAL ADAMS MRS. JOHN H. BEAUMONT LYON ARBORETUM BOARD OF WTR SUPPLY EXP. STA. H.S.P.A. JOHN A ROXBURGH CHESTER T KAINUMA FEDERAL AVIATION ADM
MAKAHA PUMP 800.2	A 5782	04	OAHU	4	21 29	158 12	400		8A		C	
MAKAKILO 730.1	5789	03	OAHU	3	21 21	158 06	300		6A			
MANOA 712.1	6122	02	HONOLULU	2	21 19	157 49	220		7A			
MANOA LYON ARBORETUM	6128	02	OAHU	2	21 20	157 48	500	8A	8A			
MANOA TUNNEL 2 716	R 6130	02	HONOLULU	2	21 20	157 48	650		MIO			
MAUNAWILI 787.1	6222	01	KOOLAUPOKO	1	21 21	157 46	395				C	
MOANALUA 770	6395	02	HONOLULU	2	21 21	157 54	20		9A			
MOMILANI 835.1	6547	03	OAHU	3	21 25	157 58	325				C	
MOUNT KAALA 844	6553	04	WAIANAE	4	21 31	158 09	4015				C	
NUUANU RES 4 783	6928	02	HONOLULU	2	21 21	157 49	1048		MIO			BOARD OF WTR SUPPLY BOARD OF WTR SUPPLY WAIALUA SUGAR CO. INC. D L GRUBB CC DEPT PKS RECREATION BOARD OF WTR SUPPLY BOARD OF WTR SUPPLY MRS DAVIDO DELAO NAT MEM CEMETERY JACK N. WHEELER
NUUANU RESERV 5 775	A 6933	02	HONOLULU	2	21 21	157 50	410		WI			
OPAEULA 870	A 7150	05	WAIALUA	5	21 34	158 02	1060	7A	7A		C	
PAIKO DR 723.4	7540	02	HONOLULU	2	21 17	157 44	10		7A			
PALI GOLF COURSE 788.1	7656	01	OAHU	1	21 23	157 47	480		10A			
PALOLO VALLEY 718	R 7664	02	HONOLULU	2	21 20	157 46	995		MIO			
PAUOA FLATS 784	R 7810	02	HONOLULU	2	21 21	157 48	1640		MIO			
PUNALUU PUMP 905.2	8314	01	KOOLAUPOKO	1	21 35	157 54	20				C	
PUNCHBOWL CRATER 709	A 8316	02	HONOLULU	2	21 19	157 51	360		8A			
PUUKUA HEIGHTS 896.4	8342	01	WAIALUA	1	21 39	158 02	900				C	
PUU MANAWAHUA 725.6	8500	03	OAHU	3	21 23	158 05	2080		8A			HUGH HAMILTON SEA LIFE PARK R. E. WHITE DEPT OF GEOSCIENCE W B RUTHERFORD WAIALUA SUGAR CO. INC. WAIHOLE WTR CO LTO SPENCER TINKER WAIALEE LIVESK RES FARM WAIALUA SUGAR CO. INC.
SEA LIFE PARK 724.14	8665	01	OAHU	1	21 19	157 40	40				C	
TANTALUS 2 780.5	8738	02	HONOLULU	2	21 20	157 50	1325		7A			
UNIV OF HAWAII 713	A 8815	02	HONOLULU	2	21 18	157 49	79		8A			
UPPER WAIHAWA 874.3	8838	05	OAHU	5	21 31	158 01	1115		6A			
WAIHAWA DAM 863	A 8945	05	WAIHAWA	5	21 30	158 03	854		7A		C	
WAIHOLE 837	A 8964	01	KOOLAUPOKO	1	21 28	157 53	745		8A		C	
WAIALAE KAHALA 715	9185	02	HONOLULU	2	21 17	157 47	40		7A			
WAIALEE 896.3	9190	01	KOOLAUPOKO	1	21 41	158 02	33	8A	8A			
WAIALUA 847	A 9195	05	WAIALUA	5	21 35	158 07	32	7A	7A		C	
WAIANAE 798.2	A 9231	04	WAIANAE	4	21 27	158 11	10		7A			BEN MAYES MOUNTAIN VIEW DAIRY WAIHOLE WTR CO LTO WAIHOLE WTR CO LTO HONOLULU ZOO WAILUPE VALLEY SCHOOL WAIMANALO EXP FARM WAIMANALO EXP FARM WAIALUA SUGAR CO. INC. WAIHOLE WATER COMPANY
WAIANAE KAWIWI 801.1	A 9234	04	OAHU	4	21 28	158 11	40				C	
WAIANA 836	A 9261	03	EWA	3	21 28	157 56	800		MO			
WAIKANE 885	A 9340	01	KOOLAUPOKO	1	21 30	157 53	760		WI			
WAIKIKI 717.2	9397	02	HONOLULU	2	21 16	157 49	10	8A	8A			
WAILUPE VLY SCH 723.6	9500	02	HONOLULU	2	21 18	157 45	180				C	
WAIMANALO EXP FARM	9523	01	KOOLAUPOKO	1	21 20	157 43	60	7A	7A			
WAIMANALO NONOKI 795.2	9534	01	OAHU	1	21 20	157 43	120				C	
WAIMEA 892	A 9593	05	WAIALUA	5	21 38	158 04	330		7A		C	
WAIPAHU 750	A 9738	03	EWA	3	21 23	158 01	59		8A			
WILHELMINA RISE 721	R 9980	02	HONOLULU	2	21 18	157 47	1100		MIO			BOARD OF WTR SUPPLY
ISLAND OF MOLOKAI												
KALAPAPA 563	A 2896	01	MOLOKAI	1	21 12	156 59	30		8A			KALAPAPA SETTLEMENT MOLOKAI RANCH LTO MOLOKAI GENERAL HOSP. MOLOKAI RANCH, LTO. OEL MONTE CORPORATION MOLOKAI RANCH COMPANY ALOHA AIRLINES PUU O HOKU RANCH MOLOKAI RANCH COMPANY
KAUNAKAKAI 536	3541	01	MOLOKAI	1	21 06	157 01	12		7A			
KAUNAKAKAI MAUKA 536.5	3547	01	MOLOKAI	1	21 06	157 01	70				C	
KEONELELE PENS 551	A 4394	01	MOLOKAI	1	21 12	157 12	560		VAR			
KUALAPUU 534	A 4778	01	MOLOKAI	1	21 09	157 02	825		7A		C	
MAUNALO 511	A 6190	01	MOLOKAI	1	21 08	157 13	1070		9A		C	
MOLOKAI AP 524	6534	01	MOLOKAI	1	21 09	157 06	450	8A	8A			
PUU O HOKU RANCH 542.1	8549	01	MOLOKAI	1	21 09	156 44	700		6A		C	
WAIKOLU 540	A 9404	01	MOLOKAI	1	21 08	156 55	3550		WI			
ISLAND OF LANAI												
KANEPUU 690	A 3130	01	LAHAINA	1	20 52	157 00	1650		WI			U S D A OOLE COMPANY HAWAIIAN AIR OOLE COMPANY
KAUNALAPAU HARBOR 658	3461	01	LAHAINA	1	20 47	157 00	30		8A		C	
LANAI AIRPORT 656	5275	01	LAHAINA	1	20 48	156 57	1300	8A	8A			
LANAI CITY 672	A 5286	01	LAHAINA	1	20 50	156 55	1620	7A	7A		C	

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STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES				OBSERVER
								TEMP.	PRECIP.	EVAP.	SPECIAL (SEE NOTES)	
ISLAND OF LANAI												
LANAIHALE 684	A 5301	01	LAHAINA	1	20 49	156 53	3370		WI			U S O A
MAHANA 694	A 5704	01	LAHAINA	1	20 52	156 55	1430		MO			U S O A
MALAEUA 676	A 6012	01	LAHAINA	1	20 46	156 55	1150		WI			U S O A
WAIKAEKUA 685	A 9021	01	LAHAINA	1	20 47	156 52	2000		WM			KOELE COMPANY
ISLAND OF MAUI												
AUWAHI 252	A 0175	02	HANA	2	20 37	156 20	2060		VAR			ULUPALAKUA RANCH
HAELAAU 477	0790	04	LAHAINA	4	20 57	156 36	2980				5	MAUI LAND-PINEAPPLE CO
HALEAKALA 8 E 5 434	A 0995	01	MAKAWAO	1	20 51	156 18	2100		7A			U OF H AGRIC EXP STA
HALEAKALA RANCH 432	A 0999	01	MAKAWAO	1	20 50	156 19	1850		8A			HALEAKALA RANCH CO
HALEAKALA R5 338	1004	02	MAKAWAO	2	20 46	156 15	7030	8A	8A			HALEAKALA NAT PARK
HALIIMAILE 423	A 1075	01	MAKAWAO	1	20 52	156 21	1070		3A			MAUI LAND-PINEAPPLE CO
HAMAKUAPOKO 485	1086	01	MAKAWAO	1	20 55	156 21	320		5A			HAWAIIAN COM & SUG CO
HANA 354	A 1122	01	HANA	1	20 45	155 59	120		8A		C	HARRY HASEGAWA
HANA AIRPORT 355	1125	01	HANA	1	20 48	156 01	61	8A	8A			ROYAL HAWAIIAN AIRLINES
HOLUA CABIN 259.5	A 1552	02	MAKAWAO	2	20 45	156 13	6930		MO			HALEAKALA NATL PARK RGS
HONOKOHU 480	A 1882	04	LAHAINA	4	20 58	156 36	870		MO			MAUI LAND-PINEAPPLE CO
HONOKOHU 493	A 1887	04	LAHAINA	4	21 00	156 39	135		6A			MAUI LAND-PINEAPPLE CO
HONOLUA FLO 49 494	1914	04	LAHAINA	4	21 01	156 38	125				5	MAUI LAND-PINEAPPLE CO
HONOMANU GULCH 341	A 1935	01	MAKAWAO	1	20 47	156 14	6280		MO			HALEAKALA RANCH CO
IAO NEEDLE 387.2	2208	03	WAILUKU	3	20 53	156 33	1080				C	STATE DIVISION OF PARKS
KANAPALI AP 453.1	2307	04	LAHAINA	4	20 56	156 42	8	8A	8A			AMFAC PROPERTIES INC
KAHOMA INTAKE 374	A 2552	04	LAHAINA	4	20 54	156 38	2000		WI			PIONEER MILL CO LTD
KAHULUI W50 398 AP	R 2572	03	WAILUKU	3	20 54	156 26	48	MIO	MIO		C J	NATL WEATHER SERVICE
KAILIILI 436	A 2630	01	MAKAWAO	1	20 51	156 16	2520		MO			E MAUI IRR CO LTD
KAILUA 446	2679	01	MAKAWAO	1	20 54	156 13	700	7A	7A			E MAUI IRR CO LTD
KAUAULA INTAKE 375	A 3433	04	LAHAINA	4	20 53	156 38	1585		WI			PIONEER MILL CO LTD
KAUPO RANCH HOUSE 259	3576	02	HANA	2	20 39	156 08	1020				C	KAUPO RANCH
KEAHUA 410	3910	03	MAKAWAO	3	20 52	156 23	480		5A			HAWAIIAN COM & SUG CO
KEANAE 346	A 4091	01	HANA	1	20 50	156 10	980		MO			E MAUI IRR CO LTD
KEAWAKAPU BEACH 260.2	4193	02	MAKAWAO	2	20 42	156 27	20	8A	8A		C	ALLEN L CORELL
KIHEI 311	4489	03	WAILUKU	3	20 47	156 27	90		7A			HAWAIIAN COM & SUG CO
KIPAHULU 258	4634	01	HANA	1	20 39	156 04	260		7A			HANA RANCH-KIPAHULU SEC
KUIAHA EXP STN	4840	01	MAUI	1	20 54	156 18	920				C	CLOSED 4/30/77
KUKUI 380	4887	04	LAHAINA	4	20 54	156 35	5788				5	MAUI LAND-PINEAPPLE CO
KULA HEIGHTS 323.2	5003	02	MAKAWAO	2	20 47	156 19	2520				C	CLOSED 4/28/77
KULA SANATORIUM 267	5006	02	MAKAWAO	2	20 42	156 22	3004	7A	7A			KULA SANATORIUM
LAHAINA 361	5177	04	LAHAINA	4	20 53	156 41	45	7A	7A		C	PIONEER MILL CO LTD
LAUNIUPOKO INTAKE 376	A 5404	04	LAHAINA	4	20 51	156 37	1280		WI			PIONEER MILL CO LTD
LAUNIUPOKO VILLAGE 372A	5408	04	LAHAINA	4	20 51	156 39	220		7A			PIONEER MILL CO LTD
LUPI UPPER 442	A 5665	01	MAKAWAO	1	20 53	156 15	1240		MO			E MAUI IRR CO LTD
MAHINAHINA 466	A 5715	04	LAHAINA	4	20 57	156 40	715		7A			PIONEER MILL CO LTD
MOKUPA 475	6521	04	LAHAINA	4	20 59	156 37	1290				5	MAUI LAND-PINEAPPLE CO
NAKALELE FIELO 60 497	A 6645	04	LAHAINA	4	21 02	156 36	340		VAR			MAUI LAND-PINEAPPLE CO
OLINDA 332	A 7040	01	MAKAWAO	1	20 48	156 17	4127		VAR			EAST MAUI IRRIGATION CO
OWALU 296	7059	04	LAHAINA	4	20 49	156 38	7		7A			PIONEER MILL CO LTD
PAAKEA 350	7194	01	HANA	1	20 49	156 07	1260		VAR		C	E MAUI IRR CO LTD
PAIA 406	7566	01	WAILUKU	1	20 55	156 23	170		6A			HAWAIIAN COM & SUG CO
PANILEIHULU 259.2	A 7674	02	HANA	2	20 41	156 08	3570		MO			KAUPO RANCH CO.
PEAHI 488.6	7952	01	MAUI	1	20 54	156 17	830		WI		C	BERNARD RUPLINGER
PCHAKEA BRIDGE 307.2	A 8060	03	WAILUKU	3	20 49	156 31	167		6A			WAILUKU SUGAR CO
POLIPOLI SPRINGS 267.2A	8070	02	MAKAWAO	2	20 41	156 20	6150		VAR			STATE DIV OF FORESTRY
PUOHOKAMOA 2 343	A 8336	01	HANA	1	20 50	156 13	2980		MO			E MAUI IRR CO LTD
PUUNENE 396	8543	03	WAILUKU	3	20 53	156 27	60		7A			HAWAIIAN COM & SUG CO
PUU PAKI 352	A 8553	01	HANA	1	20 46	156 03	2160				5	EAST MAUI IRRIGATION CO
SPRECKELSVILLE 400.2	8688	03	WAILUKU	3	20 54	156 25	85		8A			HAWAIIAN COM & SUG CO
TWIN GATES 261.3	A 8742	03	MAKAWAO	3	20 46	156 23	1310		VAR			KRONOULU RANCH
UH AGRI RES CNTR 324.5	8743	02	MAUI	2	20 46	156 20	3050				C	UH MAUI AGRI RESCH CNTR
UKULELE 333	A 8744	01	MAKAWAO	1	20 48	156 15	5230		MO			HALEAKALA RANCH CO
UKUMEHAME 301	A 8750	04	LAHAINA	4	20 48	156 35	75		7A			PIONEER MILL CO LTD
ULUPALAKUA RANCH 250	8760	02	MAKAWAO	2	20 39	156 24	1900		8A		C	ULUPALAKUA RCH CO LTD
WAHIKULI 364	A 8955	04	LAHAINA	4	20 54	156 40	580		8A			PIONEER MILL CO LTD
WAIHEHU CAMP 484	A 9275	03	WAILUKU	3	20 55	156 31	320		6A			WAILUKU SUGAR CO
WAIHEE VALLEY 482	A 9315	04	WAILUKU	4	20 57	156 32	300		6A			WAILUKU SUGAR CO
WAIKAMOI 449	A 9332	01	HANA	1	20 52	156 12	1200		MO			E MAUI IRR CO LTD
WAIKAMOI OAM 336	A 9335	01	MAKAWAO	1	20 49	156 14	4320		VAR		C	EAST MAUI IRRIGATION CO
WAIKAPU 390	A 9376	03	WAILUKU	3	20 51	156 31	370		6A			WAILUKU SUGAR CO

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								TEMP.	PRECIP.	EVAP.	SPECIAL (SEE NOTES)	
ISLAND OF MAUI												
WAILUA IKI 348	A 9460	01	HANA	1	20 48	156 09	2630					5 EAST MAUI IRRIGATION CO WAILUKU SUGAR COMPANY HALEAKALA RANCH CO
WAILUKU 386	A 9484	03	WAILUKU	3	20 54	156 30	180	7A	7A			
WAIOPAI RANCH 256	A 9765	02	HANA	2	20 38	156 12	220		0C			
ISLAND OF HAWAII												
AHUA UMI 75	A 0040	05	N KONA	5	19 38	155 47	5220		MO			W.H. GREENWELL RANCH NAT HISTORICAL PARK HONOKAA SUGAR CO MAUNA KEA SUGAR CO HAWAII NAT PARK MAUNA KEA OBSERVATORY HA VOLCANOES NAT PK HQS K L 80NO REX WILLS II NATL WEATHER SERVICE
CITY OF REFUGE 27.4	0344	04	S KONA	4	19 25	155 55	15		9A			
HAUNA 214	0840	01	HAMAKUA	1	20 06	155 28	461		8A			
HAKALAU 142	0905	02	S HILO	2	19 54	155 08	105		7A			C C C J
HALEMAUMAU 52	A 1033	03	KAU	3	19 24	155 17	3648		MO			
HALEPOHAKU 111	A 1065	02	HAMAKUA	2	19 46	155 28	9220		3P			
HAWAII VOLCNS NP HQ 54	1303	02	KAU	2	19 26	155 16	3971	8A	8A			C C C J
HAWI 168	A 1339	01	N KOHALA	1	20 14	155 50	580		6A			
HILO COUNTRY CLUB 86.6	1487	02	HAWAII	2	19 41	155 10	1600		7A			
HILO WSO 87 AP	R 1492	02	S HILO	2	19 43	155 04	27	MIO	MIO			C C C J
HOLUALOA 70	A 1557	04	N KONA	4	19 38	155 55	3220		MO			
HOLUALOA BEACH 68	A 1562	04	N KONA	4	19 37	155 59	14		7A			
HONAUNAU 27	1665	04	S KONA	4	19 27	155 53	1089		7A			C
HONOHINA 137	1701	02	N HILO	2	19 56	155 09	300		7A			
HONOMU MAUKA 138	1960	02	S HILO	2	19 51	155 09	1100		7A			
HONUAULA 71	A 2047	04	N KONA	4	19 40	155 53	6250		MO			C C C J
HUALALAI 72	A 2151	04	N KONA	4	19 42	155 52	8190		MO			
HUEHUE 92.1	A 2156	04	N KONA	4	19 45	155 59	1960		6A			
KAAALA IKI 12	A 2249	03	KAU	3	19 08	155 34	1340		WI			C C C J
KAAWALOA 29	A 2327	04	SOUTH KONA	4	19 30	155 55	1340		8A			
KAHIAWAI MAUKA 3.8	2512	03	KAU	3	19 08	155 46	4120					
KAHUA RANCH HQTRS	2600	01	HAWAII	1	20 08	155 48	3240					C C C J
KAINALIU 73.2	2751	04	N KONA	4	19 32	155 56	1500	7A	7A			
KALAOA 69.22	2887	04	HAWAII	4	19 44	155 59	2000		8A			
KALAPANA 1 67.8	2894	02	S HILO	2	19 20	155 02	10		VAR			C C C J
KAMAOA 2 5	A 3048	03	KAU	3	19 02	155 40	1375		WI			
KAMUELA 192.2	3077	01	S KOHALA	1	20 01	155 40	2670	6A	6A			
KAPAPALA RANCH 36	A 3300	03	KAU	3	19 17	155 27	2140		6A			C C C J
KAPOHO BEACH 93.11	3368	02	HAWAII	1	19 30	154 49	10	8A	8A			
KAPOHO LANDING 93.5	A 3369	02	PUNA	2	19 30	154 52	290		VAR			
KAWAINUI LOWER 193	A 3770	01	HAMAKUA	1	20 05	155 39	1080		WI			C C C J
KEAAU 92	3872	02	PUNA	2	19 38	155 02	285	8A	8A			
KEAIIWA CAMP 22.1	3925	03	KAU	3	19 14	155 29	1700					
KEALAKEKUA 2 28.7	3980	04	S KONA	4	19 30	155 55	1450	8A	8A			C C C J
KEANAKOLU CAMP 124.2	4098	02	HAMAKUA	2	19 55	155 21	5280					
KIOLAKAA A & F 6	A 4625	03	KAU	3	19 04	155 38	1925		MO			
KIPA 89.2	A 4632	02	S HILO	2	19 44	155 09	1490		WI			C C C J
KOHALA MISSION 175.1	4680	01	N KOHALA	1	20 14	155 48	537	7A	7A			
KOIAWE LOWER 196	A 4685	01	HAMAKUA	1	20 05	155 38	720		WI			
KONA (KAILUA) 68.3	A 4764	04	N KONA	4	19 39	156 00	30	8A	8A			C C C J
KONA VILLAGE 93.8	4765	04	N KONA	4	19 50	155 59	20		8A			
KUKAIIU 222	4815	01	HAMAKUA	1	20 02	155 21	840		6A			
KUKUIHAELE HIC 199	4928	01	HAMAKUA	1	20 07	155 35	980		6A			C C C J
KUKUIHAELE MILL 206	4938	01	HAMAKUA	1	20 08	155 34	300		6A			
KULANI CAMP 79	5011	02	S HILO	2	19 33	155 18	5170	8A	8A			
KULANI MAUKA 76	A 5018	05	N HILO	5	19 35	155 27	8300		VAR			C C C J
KULANI SCHOOL SITE 78 A	5021	02	S HILO	2	19 35	155 20	5735		WI			
LALAMILO FLO OFF 191.1	5260	01	S KOHALA	1	20 01	155 41	2615					
LANIHAU 68.2	5330	04	N KONA	4	19 40	155 58	1530		7A			C C C J
LAVA TREE PARK 66.1	5460	02	PUNA	2	19 29	154 54	650					
MAKAHALAU 103	5761	02	HAWAII	1	19 59	155 33	3820		6A			
MANUKA 2	A 6134	03	KAU	3	19 07	155 50	1760		WI			C C C J
MAUNA KEA 085 111.2	6183	02	HAWAII	2	19 49	155 28	3770		7P			
MAUNA LOA SLOPE 085	6198	05	HAMAKUA	5	19 32	155 35	1150	MIO	MIO			
MIDDLE HOLUALOA 68.1	A 6268	04	N KONA	4	19 37	155 58	500		7A			C C C J
MIDDLE PEN 147.1	A 6270	01	N KOHALA	1	20 06	155 50	1380		VAR			
MOAULA 18	A 6407	03	KAU	3	19 11	155 30	600					
MOUNTAIN VIEW 91	6552	02	PUNA	2	19 33	155 07	1530	6A	6A			C C C J
NAALEHU 14	A 6588	03	KAU	3	19 04	155 35	800	8A	8A			
NAPOOPOO 28	A 6697	04	S KONA	4	19 28	155 55	395		7A			
OOKALA 223	7131	02	N HILO	2	20 01	155 17	430	7A	7A			C C C J
OPIHIHALE 2 24.1	7166	04	S KONA	4	19 16	155 53	1270	7A	7A			

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								TEMP.	PRECIP.	EVAP.	SPECIAL (SEE NOTES)	
ISLAND OF HAWAII												
ORCHIO LANO EST 91.5	A 7185	02	PUNA	2	19 34	155 00	445		VAR			BOARD OF WATER SUPPLY HONOKAA SUGAR COMPANY LAUPAHOEHOE SUGAR CO KAU SUGAR COMPANY, INC PUAN SUGAR COMPANY PARKER RCH-KAPAPALA DIV MAUNA KEA SUGAR CO MAUNA KEA SUGAR CO STATE DIV OF FORESTRY STATE DIVISION OF PARKS
PAAUHAW 217	7204	01	HAMAKUA	1	20 05	155 26	415		8A		C	
PAAUILO 221	7312	01	HAMAKUA	1	20 03	155 22	800		7A			
PAHALA 21	A 7421	03	KAU	3	19 12	155 29	870	8A	6A			
PAHOA 65	7457	02	PUNA	2	19 30	154 57	670		6A			PARKER RCH-KAPAPALA DIV MAUNA KEA SUGAR CO MAUNA KEA SUGAR CO STATE DIV OF FORESTRY STATE DIVISION OF PARKS
PAKAO 37	A 7643	03	KAU	3	19 22	155 28	5000		MO			
PAPAIOU 144.1	7711	02	S HILO	2	19 47	155 06	260		7A			
PAPAIOU MAUKA 140.1	7721	02	S HILO	2	19 47	155 08	1270		7A			
PIIHONUA 89	A 8051	02	S HILO	2	19 44	155 10	1730		MO			SUPT PUU HEIAU-NHS W.H. GREENWELL RANCH PUU WAAWAA RANCH CO BOARD OF WTR SUPPLY MRS CAROLYN CARLSON PARKER RCH-KAPAPALA DIV U S COAST GUARD SHINICHI KANESHIRO BOISE CASCADES WA CONST
POHAKULOA 107	A 8063	02	HAMAKUA	2	19 45	155 32	6511		WI		C	
PUUKOHOLA HEIAU 98.1	8422	05	HAWAII	5	20 02	155 50	140	8A	8A			
PUU LEHUA 73	A 8460	04	N KONA	4	19 34	155 49	4880		MO			
PUU WAAWAA 94.1	A 8555	05	N KONA	5	19 47	155 51	2520		7A		C	U S COAST GUARD SHINICHI KANESHIRO BOISE CASCADES WA CONST
SAOOLE ROAD 1 84	A 8590	02	S HILO	2	19 42	155 12	2340		WM			
SOUTH KONA 2.31	8650	03	HAWAII	3	19 06	155 45	2650	8A	8A			
SOUTH POINT CORRAL 3	A 8675	03	KAU	3	18 57	155 41	500		WI			
UPOLU POINT USCG 159.2	8830	01	N KOHALA	1	20 15	155 53	61	8A	8A			CLOSED 2/26/69  CLOSED 4/30/77 CLOSED 4/28/77  UH MAUI AGRI RESCH CNTR
WAIKAKA SCO 88.2	9025	02	S HILO	2	19 40	155 08	1050		7A			
WAIKALOA-8015 CAS 95.8	9142	04	HAWAII	5	19 56	155 48	900		8A			
CLOSED STATIONS												
ISLAND OF OAHU												
MAKAHA VALLEY 800.1	A 5781	04	WAIANAE	4	21 29	158 12	160		8A		C	
ISLAND OF MAUI												
KUIAHA EXP STN	4840	01	MAUI	1	20 54	156 18	920				C	UH MAUI AGRI RESCH CNTR
KULA HEIGHTS 323.2	5003	02	MAKAWAO	2	20 47	156 19	2520				C	
NEW STATIONS												
ISLAND OF MAUI												
UH AGRI RES CNTR 324.5	8743	02	MAUI	2	20 46	156 20	3050				C	

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								TEMP.	PRECIP.	EVAP.	SPECIAL (SEE NOTES)	
PACIFIC												
EAST OF 180TH MERIDIAN												
CANTON ISLAND	4101	02	PHOENIX IS		2 46N	171 43W	8	9A	9A			ITT/FEDERAL ELEC CORP
FAGA ALU RESERVOIR	4135	03	AMER SAMOA		14 18S	170 42W	820		8A			PUBLIC WORKS
FALEASAO VILLAGE	4248	03	TA'U'MAN		14 14S	169 31W	16		8A			SOLOMULI MALU'IA
JOHNSTON WSO AP	R 4320	01	LINE ISLANDS		16 44N	169 31W	7	M10	M10	7A	J	NATL WEATHER SERVICE
LEONE	4397	03	TUTUILA		14 21S	170 47W	20	6P	6P			ST THERESA SCHOOL
FRENCH FRIGATE SHOALS	4401	07			23 52N	166 17W	6	8P	8A			U S COAST GUARD
MIDWAY SAND ISLAND	4490	07			28 13N	177 21W	10	M10	M10			U S NAVY
PAGO PAGO WSO AP	R 4690	03	AMER SAMOA		14 20S	170 43W	12	M10	M10		J	NATL WEATHER SERVICE
WESTERN PACIFIC ISL. NORTH OF 12 N												
ANDERSEN AFB GUAM	\$4 4025	03	MARIANNA IS		13 35N	144 55E	624	M10	M10			AIR WEATHER SERVICE
CLARK AFB LUZON	\$4 4100	06	PHILIPPINE I		15 11N	120 33E	475	M10	M10			U S AIR FORCE
GUAM NAS	4226	03	MARIANNA IS		13 29N	144 48E	254	M10	M10			U S NAVY
GUAM WSMO	R 4229	03	MARIANNA IS		13 33N	144 50E	361	10A	10A	10A	J	NATL WEATHER SERVICE
MANGILAO	4468	03	GUAM		13 27N	144 49E	60		7A			GUAM AGRICULTURAL STA
ROTA	4800	03	MARIANNA IS		14 08N	145 09E	47		8A			OIST ADMINISTRATOR
SAIPAN LORAN	4860	03	MARIANNA IS		15 08N	145 42E	9	10A	10A			U S C G LORAN STATION
WAKE WSO AP	R 4901	01			19 17N	166 39E	11	M10	M10		J	NATL WEATHER SERVICE
CAROLINE AND MARSHALL ISLANDS												
ANGUAR	4030	02	CAROLINE IS		6 55N	134 09E	15		8A			USCG LORAN STATION
ENIWETAK	4165	01	MARSHALL IS.		11 21N	162 21E	10	M10	M10			U S COAST GUARD
FALALOP I. ULITHI	4185	02	CAROLINE IS		10 02N	139 48E	6	10P	10P			PRINCIPAL-ULITHI H-SCH
KAPINGAMARANGI ATOLL	4325	01	PONAPE		1 05N	154 48E	10	M10	M10			ERSIN HAQUET
KOROR WSO	R 4351	02	CAROLINE IS		7 20N	134 29E	94	M10	M10		J	NATL WEATHER SERVICE
KWAJALEIN MISSILE RGN	R 4375	01	MARSHALL IS		8 44N	167 44E	7	12M	12M		J	KMR WEATHER SERVICE
LELE I. KUSAIE	4395	02	CAROLINE IS		5 20N	163 02E	7	M10	M10			JULIAN E ROBERT
MAJURO WSO AP	R 4460	02	MARSHALL IS		7 05N	171 23E	10	M10	M10		J	NATL WEATHER SERVICE
METALANIM	4482	02	PONAPE		6 51N	158 19E	30		8A			REV E. A. SOUCIE
MOKIL ATOLL	4490	02	PONAPE DIST.		6 41N	159 47E	27		SP			ESHIAM BEN
NGASANG.8ABELTHUAP	4580	01	PALAU ISLAND		7 38N	134 39E	10		8A			BETHANIA SEMINARY
PONAPE WSO	R 4751	02	CAROLINE IS		6 58N	158 13E	123	M10	M10		J	NATL WEATHER SERVICE
SATAWAN ATOLL	4814	02	CAROLINE IS		5 20N	153 44E	9	M10	M10			ANTER EKO
TRUK. MOEN I. WSO AP	R 4851	02	CAROLINE IS		7 28N	151 51E	5	M10	M10		J	NATL WEATHER SERVICE
WOLEAI ATOLL	4911	01	CAROLINE IS		7 23N	143 55E	7	M10	M10			HASUGULIMAR/HALEYEMAI
YAP WSO AP	R 4951	02	CAROLINE IS		9 29N	138 05E	44	M10	M10		J	NATL WEATHER SERVICE

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Additional information regarding the climates of Hawaii and the Pacific Ocean Area may be obtained by writing to the National Climatic Center, Federal Building, Asheville, N.C. 28801, or to any National Weather Service Office near you. Additional precipitation data for Hawaii are contained in "HOURLY PRECIPITATION DATA HAWAII."

**DIMENSIONAL UNITS:** Unless otherwise indicated, dimensional units used in this bulletin are: Temperature in °F., precipitation and evaporation in inches, and wind movement in miles. In "Supplemental Data" table directions entered in figures are tens of degrees. Resultant wind is the vector sum of wind directions and speeds divided by the number of observations.

**OBSERVATION TIME:** Data in the "Monthly Extremes," "Daily Precipitation" table, "Daily Temperature" table, and "Evaporation and Wind" table are for the 24 hours ending at time of observation unless indicated otherwise by reference letters in the Station Index. The Station Index shows observation time in local standard time.

**EVAPORATION** is measured in the standard Weather Service-type pan of 4-foot diameter unless otherwise noted below in the Evaporation and Wind table. Max and Min values in the Evaporation and Wind table are extremes of temperature of water in pan as recorded during 24 hours ending at time of observation. Wind is the total wind movement in miles over the evaporation pan as determined by a continuous anemometer recorder located 6-8 inches above the pan.

**NORMALS** for all stations are climatological standard normals based on the period 1941-1970.

**STATION NAMES:** Hawaii state key numbers are included following station names in the several tables.

**LATE REPORTS AND CORRECTIONS** will be carried only in the June and December issues of this bulletin.

**INTERPOLATED VALUES** for monthly precipitation totals may be found in the annual issue of this publication.

**IN THE DATA TABLES THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING:**

- No record in the "Supplemental Data" table, "Daily Precipitation" table, "Evaporation and Wind" table, and the Station Index.
- No record in the "Monthly Summarized Data" table and the "Daily Temperature" table is indicated by no entry.
- + And also on an earlier date or dates.
- ++ Highest observed one minute windspeed. This station is not equipped with an instrument to measure fastest mile data.
- \* Amount included in following measurement, time distribution unknown.
- < Maximum and minimum temperatures are the highest and lowest hourly readings for each day.
- ‡ Extreme occurred at station with incomplete data which may have been exceeded.
- A The letter "A" shown following station name in "Monthly Summarized Data" table, "Daily Precipitation" table, and "Station Index," indicates amount carried in the "Total" column is for the period from last measurement of a preceding month through the last measurement of the current month. See "Daily Precipitation" table of this and previous bulletins for dates of measurement. Where gages are read only once monthly, measurements made on the first of a month are credited to the last day of the preceding month.
- B Adjusted to a full month.
- M One or more days of record missing; if average value is entered, less than 10 days record is missing. See "Daily Temperature" table for detailed daily record.
- R Amounts from recording gage.
- T Trace, an amount too small to measure.
- V Includes total for previous month.

**IN THE STATION INDEX THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING:**

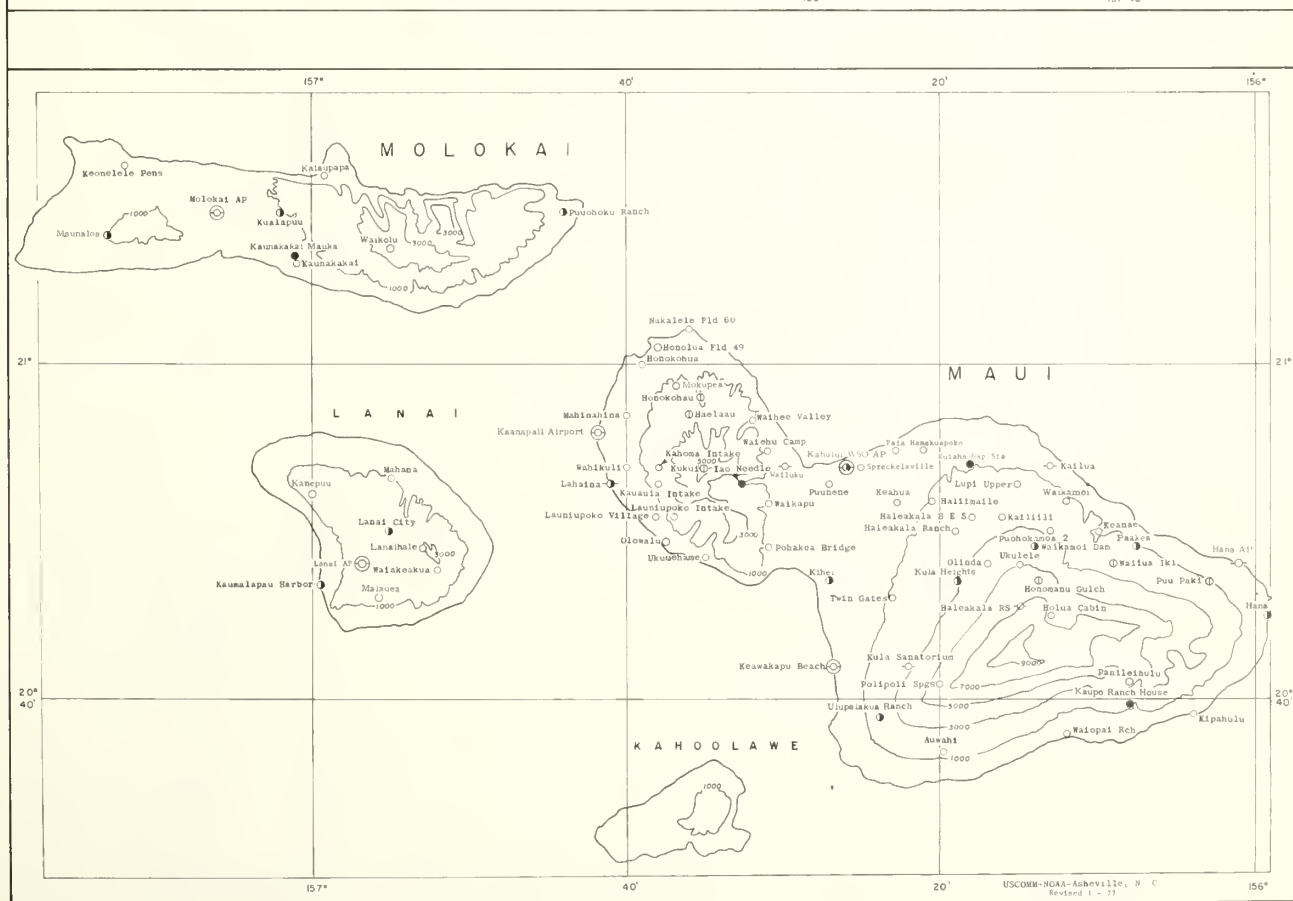
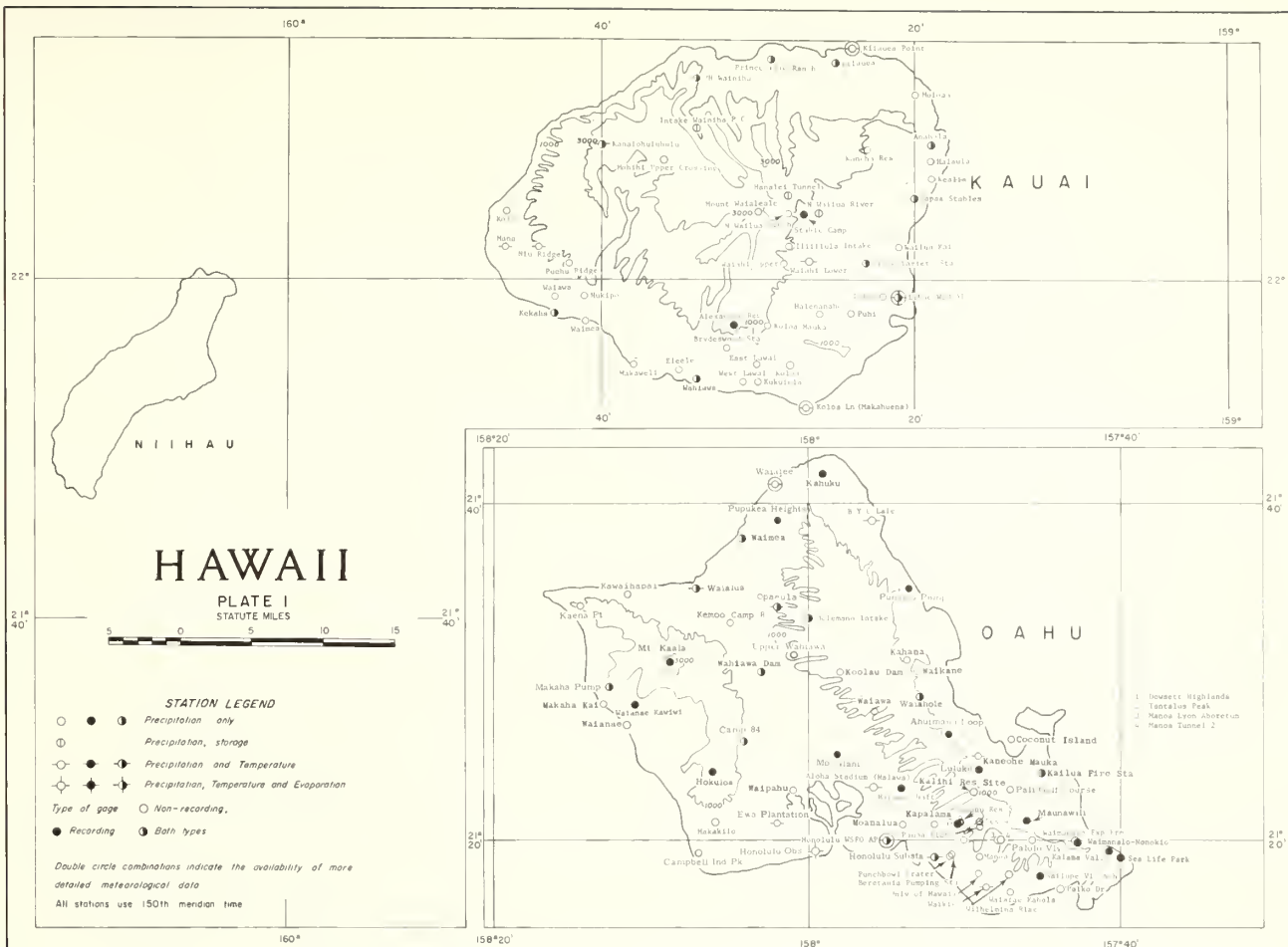
- AR Observation made after rain.
- C In Special Column of Station Index indicates Recording Rain Gage Station. Hourly Precipitation values are processed for special purposes, and are published later in the "Hourly Precipitation Data" bulletin. If daily amounts are published in "Monthly Summarized Data" bulletin they are from a separate non-recording gage, except where indicated by reference 'R'. Such amounts may differ from amounts published from the recording gage in the "Hourly Precipitation Data" bulletin.
- J "Supplemental Data" table.
- MO Gage read once monthly; usually on the last day.
- OC Gage readings at periods varying from a few weeks to several months.
- S Storage Precipitation Station. Precipitation measurements, made at irregular intervals, are published in the December issue, or as late reports in the June issue of this publication.
- SS Observation time is near sunset.
- VAR Observation time is variable.
- WI Gage read weekly or irregularly only.
- WM Gage read weekly and last day of month.
- # Thermometers are generally exposed in a shelter located a few feet above sod-covered ground; however, this reference indicates that the thermometers are exposed in a shelter located on the roof of a building.
- ‡ DRAINAGE CODE: KAUAI: 1-NORTHERN 2-SOUTHEASTERN 3-SOUTHWESTERN OAHU: 1-WINDWARD KOOLAU 2-HONOLULU 3-SOUTH CENTRAL 4-WESTERN 5-NORTH CENTRAL MOLOKAI: 1-(NO INTRA-ISLAND DIVISIONS) LANAI: 1-(NO INTRA-ISLAND DIVISIONS) MAUI: 1-NORTHEASTERN 2-SOUTHERN 3-CENTRAL 4-WESTERN HAWAII: 1-NORTHERN 2-EASTERN 3-SOUTHERN 4-WESTERN 5-CENTRAL

Stations appearing in the tables with no data were either missing or received too late to be included in this issue.

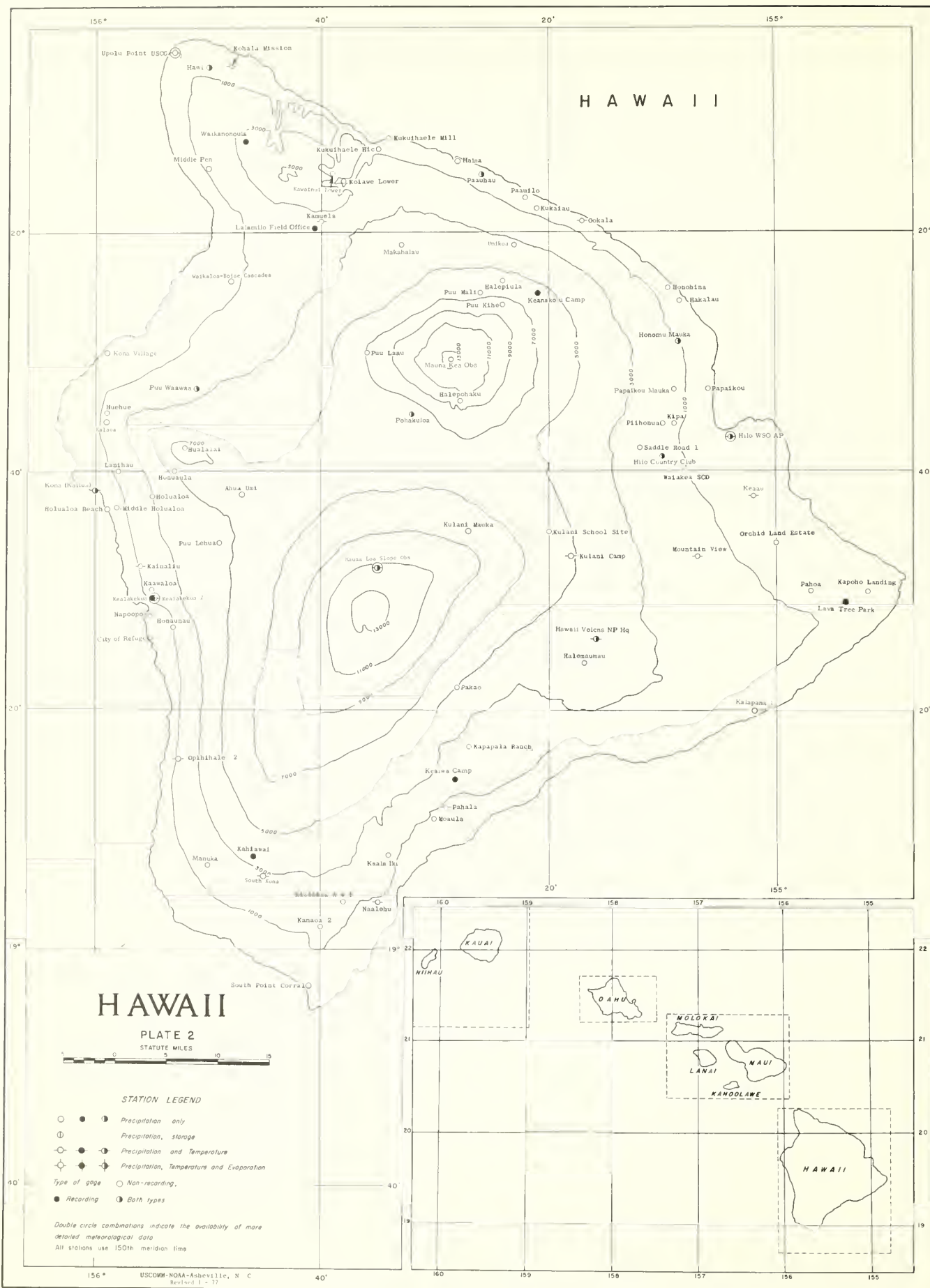
The Pacific includes stations in the Trust Territory of the Pacific Islands, Territory of Guam, American Samoa, and other scattered islands and atolls. General weather conditions in the U.S. for each month are described in the CLIMATOLOGICAL DATA NATIONAL SUMMARY and STORM DATA.

Information concerning the history of changes in locations, elevations, exposure, etc., of substations through 1957 may be found in the publication "Substation History" for this State, price 40 cents. Similar information for regular National Weather Service Offices may be found in the latest annual issue of Local Climatological Data, price 20 cents. These publications may be obtained from the National Climatic Center at the address shown above.

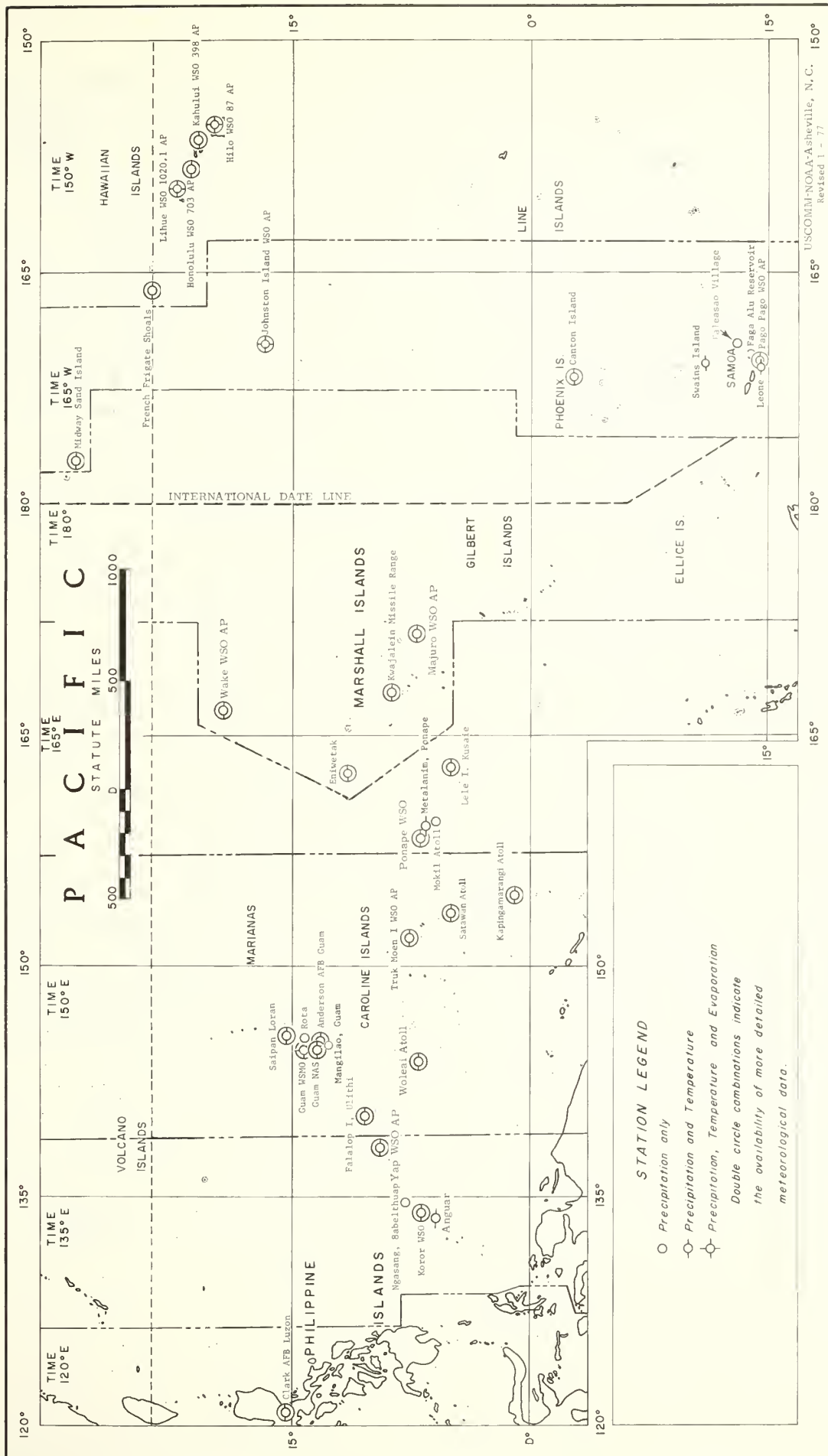
Subscription Price: \$5.10 a year for each section including annual summary; \$5.55 additional for foreign mailing; 40¢ single copy; 30¢ annual summary. Make checks payable to Department of Commerce, NOAA; send payments and orders to: National Climatic Center, Federal Building, Asheville, N. C. 28801. Attn: Publications.

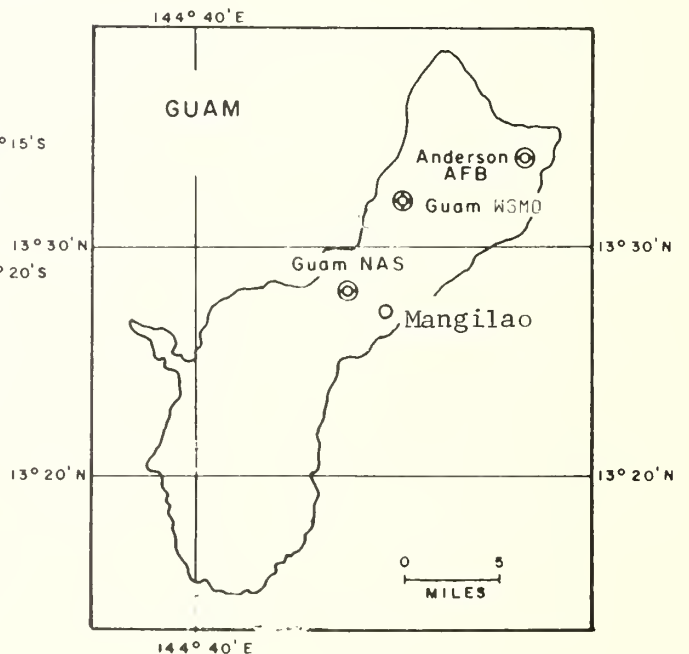
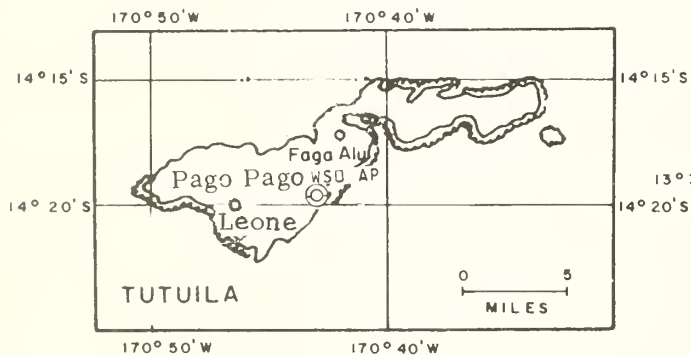
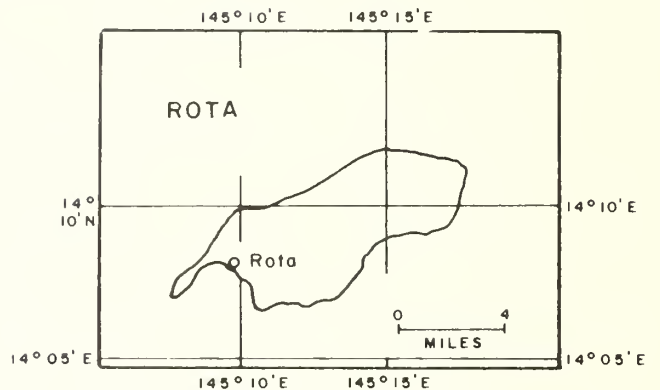
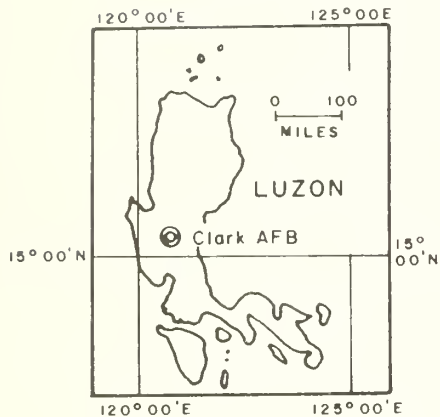
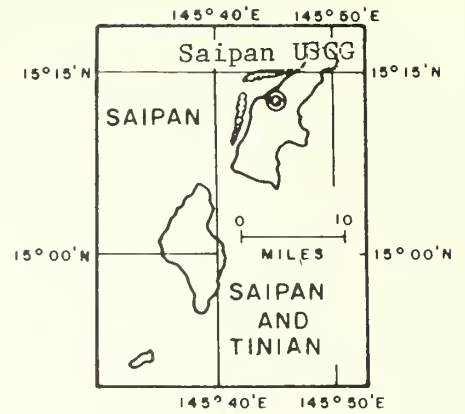
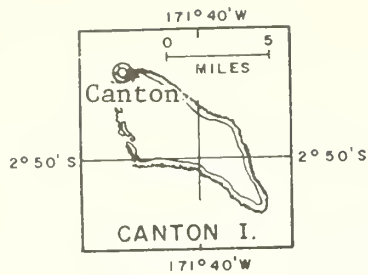




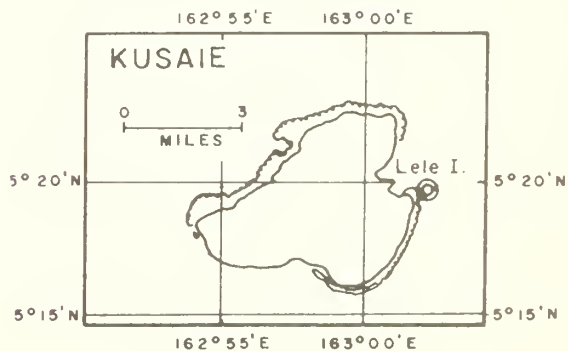
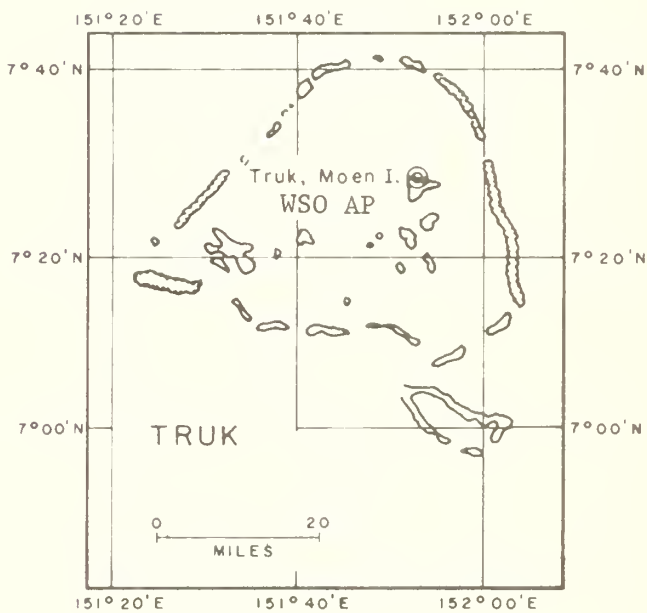
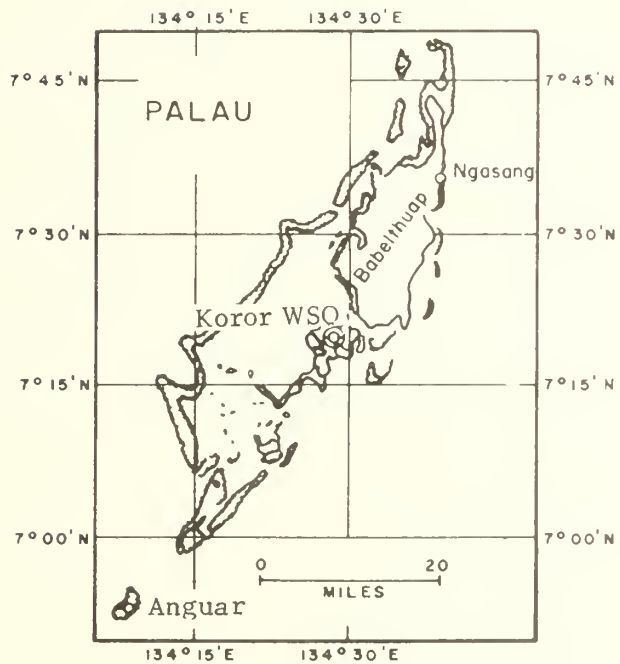
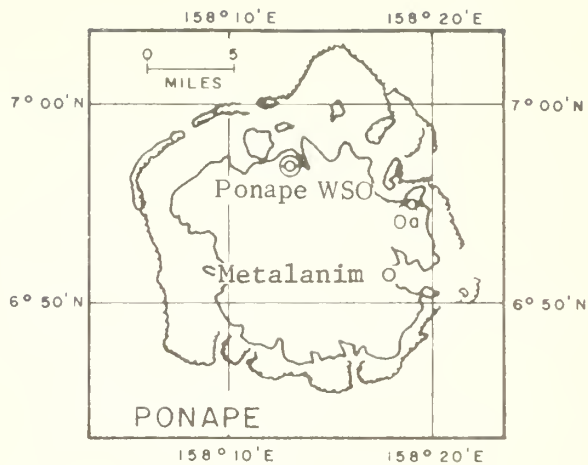
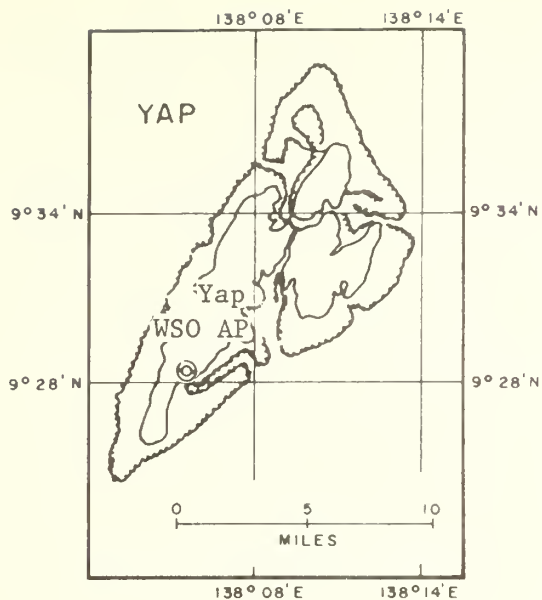




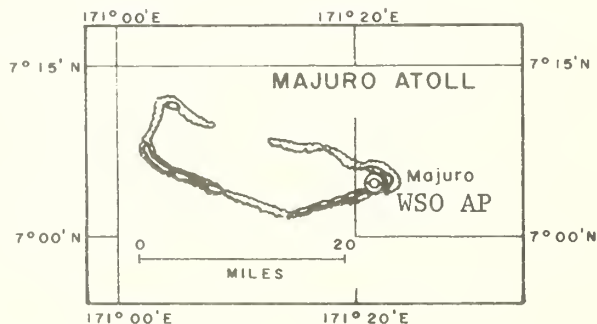
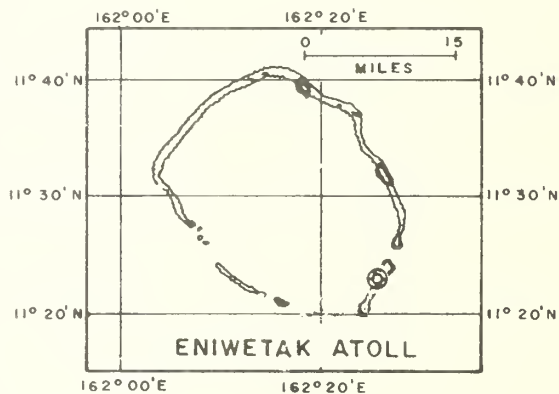
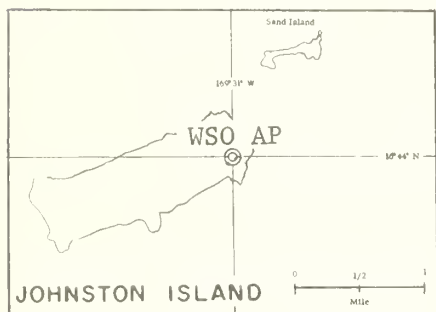
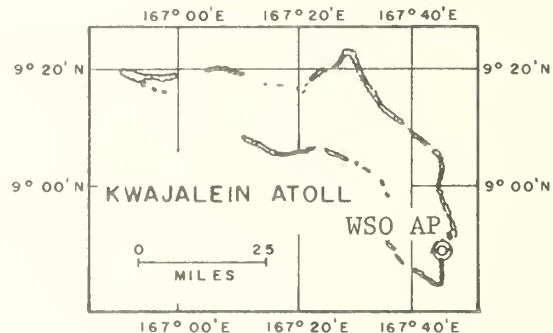
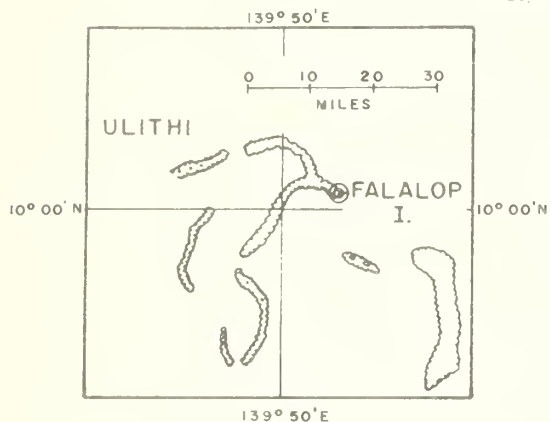
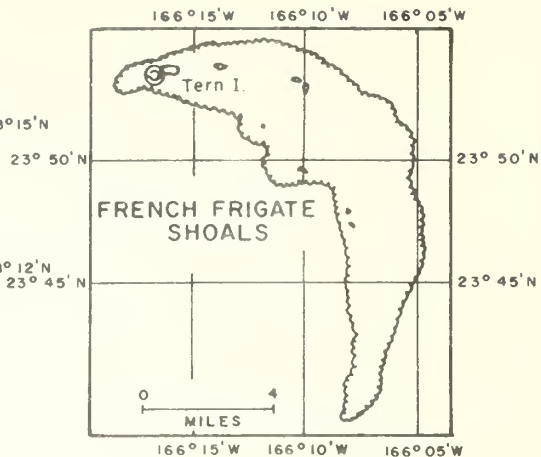
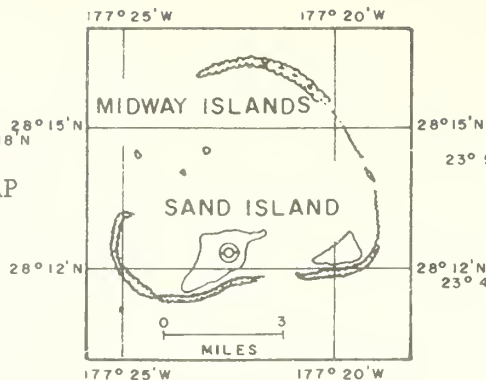
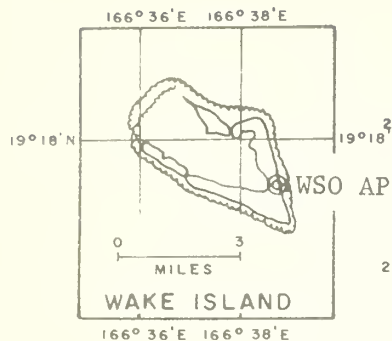




Reef



— Reef







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NATIONAL CLIMATIC CENTER  
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CCM 210



**THIRD CLASS**

# Climatological Data



## HAWAII AND PACIFIC

### TEMPERATURE AND PRECIPITATION EXTREMES

HAWAIIAN STATIONS ONLY

HIGHEST TEMPERATURE:	PUUKOHOLA HEIAU 98.1	HAWAII	95	DATE	20+
LOWEST TEMPERATURE:	MAUNA LOA SLOPE 085	HAWAII	31	DATE	27
GREATEST TOTAL PRECIPITATION:	MOUNT WAIALEALE 1047	KAUAI	23.35		
LEAST TOTAL PRECIPITATION:	14 STATIONS		.00		
GREATEST 1 DAY PRECIPITATION:	WAIHAOLE 837	OAHU	8.53	DATE	09

SEP 10 1977

### SUPPLEMENTAL DATA

	WIND (SPEED - M.P.H.)						RELATIVE HUMIDITY AVERAGES- PERCENT				NUMBER OF DAYS WITH PRECIPITATION								PERCENT OF POSSIBLE SUNSHINE	AVERAGE (TENTHS) SKY COVER SUNRISE TO SUNSET
	RESULTANT DIRECTION	RESULTANT SPEED	AVERAGE	FASTEST MILE	DIRECTION OF FASTEST MILE	DATE OF FASTEST MILE	STANDARD OF TIME				TRACE	.01-.09	.10-.49	.50-.99	1.00-1.99	2.00 AND OVER	TOTAL			
							GREENWICH CIVIL													
							12	18	00	06										
GUAM WSMO	-	-	-	23	E	15	-	76	74	92	0	15	9	2	1	0	27	63	7.9	
HILO WSO 87 AP	1	0.5	6.3	16	E	20+	85	75	63	80	4	17	8	0	0	0	29	57	6.3	
HONOLULU WSO 703 AP	6	12.2	13.1	27	E	15	72	68	53	69	15	3	0	0	0	0	18	66	5.3	
JOHNSTON WSO AP	9	17.6	18.3	34	E	15	80	78	71	76	8	12	3	0	0	0	23	82	5.1	
KAHULUI WSO 398 AP	5	13.7	14.5	31	NE	19+	76	75	57	69	9	4	0	0	0	0	13	88	2.8	
KOROR WSO	10	2.2	6.3	22	SE	08	88	-	80	78	1	8	14	2	2	1	28	52	9.0	
KWAJALEIN MISSILE RGN	7	12.7	13.2	30++	11	21	83	83	76	77	3	10	7	2	1	1	24	-	7.4	
LIHUE WSO 1020.1 AP	6	12.1	12.9	22	E	19+	79	73	65	75	7	14	5	1	1	0	28	58	6.0	
MAJURO WSO AP	7	10.6	11.0	28	E	22	83	84	76	78	1	9	11	4	2	0	27	61	8.7	
PAGO PAGO WSO AP	11	14.5	15.6	30	E	29	78	77	73	77	9	6	4	0	0	1	20	-	7.3	
PONAPE WSO	-	-	-	18	E	20	87	-	78	79	0	5	11	6	4	1	27	28	8.9	
TRUK MOEN I. WSO AP	7	7.0	8.3	18	NE	28+	84	-	77	77	2	7	12	5	1	0	27	23	9.7	
WAKE WSO AP	8	12.2	14.5	26	E	20	87	90	69	76	9	14	2	1	0	0	26	80	4.5	
YAP WSO AP	10	6.3	7.2	19	SE	13+	87	-	78	75	1	12	9	2	1	1	26	42	8.2	

I CERTIFY THAT THIS IS AN OFFICIAL PUBLICATION OF THE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION AND IS COMPILED FROM RECORDS ON FILE AT THE NATIONAL CLIMATIC CENTER, ASHEVILLE, NORTH CAROLINA 28801.

*Daniel B. Mitchell*

DIRECTOR  
NATIONAL CLIMATIC CENTER

**noaa**

NATIONAL OCEANIC AND  
ATMOSPHERIC ADMINISTRATION / ENVIRONMENTAL  
DATA SERVICE / NATIONAL CLIMATIC CENTER  
ASHEVILLE, N.C.

## MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

HAWAII AND PACIFIC  
JUNE 1977

STATION		TEMPERATURE										PRECIPITATION												
		AVERAGE MAXIMUM	AVERAGE MINIMUM	AVERAGE	DEPARTURE FROM NORMAL	HIGHEST	DATE	LOWEST	DATE	DEGREE DAYS	NO. OF DAYS				TOTAL	DEPARTURE FROM NORMAL	GREATEST DAY	DATE	SNOW, SLEET		NO. OF DAYS			
											MAX.		MIN.						TOTAL	MAX. DEPTH ON GROUND	DATE	-10 OR MORE	-50 OR MORE	1.00 OR MORE
											30° OR WARMER	30° OR COOLER	32° OR WARMER	32° OR COOLER										
HAWAII																								
ISLAND OF KAUAI																								
ANAHOLA 1114	A													2.10										0
KANALOHULU 1075		72.2	54.9	63.6		80	22	45	7	0	0	0	0	2.49		1.31	29	.0	0		5	1	1	
KAPAA STABLES 1104	A													3.36				.0	0					
KILAUEA POINT 1133		82.6	71.3	77.0		85	23+	68	4	0	0	0	0	1.52		.39	5	.0	0		4	0	0	
KOLOA 936	A													3.46		.57	20+	.0	0					
LIHUE WSO 1020.1 AP	//R	81.5	72.1	76.8	- .7	83	30+	69	9+	0	0	0	0	3.21	- 1.64	1.00	8	.0	0		7	2	1	
MANA 1026		87.3M	65.9M	76.6M	.3	90	24	63	24+	1	0	0	0	.20	- .29	.18	28	.0	0		1	0	0	
N. WAILUA DITCH 1051	A													10.87				.0	0					
PH. WAINIHA 1115														6.36		.70		.0	0					
PUEHU RIDGE 1040														.95		.15	.65	29	.0	0		2	1	0
WAIHAWA 930	A													1.02	- .35			.0	0					
WAIHAI LOWER 1054		74.5	64.4	69.5		77	24+	58	6	0	0	0	0	6.26	- .77	1.09	5	.0	0		20	2	1	
WAIHAE 947														.49	.25	.20	29	.0	0		3	0	0	
ISLAND				72.7										3.25				.0						
ISLAND OF OAHU																								
ALOHA STADIUM-HALAWA		84.4M	69.7M	77.1M		88	29	66	7	0	0	0	0	1.11		.66	29	.0	0		2	1	0	
8 Y U LAIE 903.1														.12		.12	6	.0	0		1	0	0	
HONOLULU OBSERV 702.2														.11		.08	8	.0	0		0	0	0	
HONOLULU WSO 703 AP	R	86.3	72.6	79.5	-.6	89	29	68	28+	0	0	0	0		- .21			.0	0		0	0	0	
KANEHE MAUKA 781		80.3	70.5	75.4	-.5	83	30+	68	5+	0	0	0	0	6.24	3.58	2.60	9	.0	0		9	2	2	
KOOLAUA DAM 833	A													8.41		1.82	2	.0	0		16	5	2	
MANOA LYON ARBORETUM		78.3	67.5	72.9		82	30+	65	4	0	0	0	0	13.09		4.38	9	.0	0		19	8	2	
NUUANU RES. 4 783														7.46		3.34	8	.0	0		13	2	1	
OPAEULA 870	A	78.8	64.6	71.7	.0	80	30+	62	7+	0	0	0	0	.32		.10	13	.0	0		1	0	0	
PALOHE VALLEY 718	R													14.30	6.63	6.18	8	.0	0		19	7	3	
WAIHAWA DAM 863	A													2.99		1.10	29	.0	0					
WAIHOLE 837	A													21.15		8.53	9	.0	0		2	1		
WAIKALEE 896.3		82.1	70.8	76.5		85	28	68	8	0	0	0	0	.89		.18	5	.0	0		3	0	0	
WAILALUA 847	A	84.0	65.3	74.7	-.7	87	28+	60	10+	0	0	0	0	1.77	1.33	1.20	29	.0	0		3	1	1	
WAIKIKI 717.2		86.1M	68.8M	77.5M		89	30+	65	9	0	0	0	0	1.15		.55	9	.0	0		3	1	0	
WAIMANALO EXP FARM		82.2	70.9	76.6		84	30+	67	6	0	0	0	0	1.16		.49	6	.0	0		4	0	0	
WAIKAMU 750	A													.90		.43	29	.0	0		2	0	0	
ISLAND				75.8										5.07				.0						
ISLAND OF MOLOKAI																								
KUALAPUU 534	A													1.00				.0	0					
MAUNALOA 511	A													.49		.45	9	.0	0		1	0	0	
MOLOKAI AP 524		83.6	68.7	76.2		88	29+	64	9	0	0	0	0	.44		.13	17	.0	0		1	0	0	
ISLAND				76.2										.64				.0						
ISLAND OF LANAI																								
LANAI CITY 672	A													.39	- .89	.17	6	.0	0		1	0	0	
ISLAND														.39				.0						
ISLAND OF MAUI																								
HALEAKALA 8 E S 434	A	67.4	45.7	56.6	.2	75	2	33	19	0	0	0	0	.94		.34	14	.0	0		2	0	0	
HALEAKALA RS 338		81.6	69.2	75.4		84	30+	65	5	0	0	0	0	.52	- .69	.23	30	.0	0		2	0	0	
HANA AIRPORT 355														4.39		1.08	27	.0	0		10	3	1	
HONOKOHUA 493	A													1.86		.25	15	.0	0					
KANAPALI AP 453.1		82.6	66.8	74.7		84	30+	61	6	0	0	0	0	.10		.03	19	.0	0		0	0	0	
KAHULUI WSO 398 AP	R	84.3	68.6	76.5	-.6	88	28+	61	5	0	0	0	0	.13	- .08	.08	5	.0	0		0	0	0	
KAILUA 446		77.9M	66.4M	72.2M	.2	81	30	62	6	0	0	0	0	3.98	- 3.12	.71	15	.0	0					
KEANAE 346	A													6.21				.0	0					
KIPAHULU 258														2.70	- 4.17	.62	27	.0	0		14	1	0	
KULA SANATORIUM 267		73.0	57.7	65.4	.7	76	27	54	27+	0	0	0	0	.93	- .48	.93	27	.0	0		1	1	0	
LAHAINA 361		87.0	67.3	77.2	.7	90	14	65	13+	1	0	0	0	.00	- .09	.00		.0	0		0	0	0	
PAIA 406														.52	- .37	.13	6	.0	0					
WAILUKU 386	A	81.0M	70.3M	75.7M	-.9	85	28	65	6	0	0	0	0	.64	- .21			.0	0		2	0	0	
ISLAND				71.7										1.76				.0						
ISLAND OF HAWAII																								
HAWAII VOLCNS NP HO 54	R	70.4M	53.0M	61.7M	.0	75	30	51	28+	0	0	0	0	1.54	- 3.13	.25	14	.0	0		7	0	0	
HILO WSO 87 AP	A	84.8	67.5	76.2	1.6	87	30+	65	26+	0	0	0	0	2.46	- 4.15	.36	13	.0	0		8	0	0	
HUEHUE 92.1														1.70				.0	0					
KAIHALU 73.2		76.4	60.4	68.4		79	29+	57	11+	0	0	0	0	3.54	- 3.72			.0	0					
KAPOHO BEACH 93.11		86.0M	68.8M	77.4M		91	28	64	29	1	0	0	0	2.01		.59	14	.0	0		6	1	0	
KEARU 92		80.7	65.4	73.1		83	30+	60	17	0	0	0	0	2.52		.56	14	.0	0		9	1	0	

SEE REFERENCE NOTES FOLLOWING STATION INDEX

# MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

HAWAII AND PACIFIC  
JUNE 1977

STATION		TEMPERATURE											PRECIPITATION												
		AVERAGE MAXIMUM	AVERAGE MINIMUM	AVERAGE	DEPARTURE FROM NORMAL	HIGHEST	DATE	LOWEST	DATE	DEGREE DAYS	NO. OF DAYS				TOTAL	DEPARTURE FROM NORMAL	GREATEST DAY	DATE	SNOW + SLEET			NO. OF DAYS			
											MAX.	MIN.							TOTAL	MAX. DEPTH ON GROUND	DATE	.10 OR MORE	.50 OR MORE	1.00 OR MORE	
												32° OR ABOVE	32° OR BELOW	32° OR BELOW											
HAWAII																									
KEALAHEKUA 2 28.7	A	76.9M	62.6M	69.8M		80	28*	60	20*		0	0	0	0	2.51		.73	10	.0	0		9	1	0	0
KONA (KAILUA) 68.3		83.6M	70.3M	77.0M		86	28	68	27*		0	0	0	0	1.16		.60	23	.0	0		1	0	0	0
KUKUIHALE HIC 199	A	65.2	47.0M	56.1M	- .5	70	22	39	3		0	0	0	0	2.01	.95	.46	21	.0	0		9	0	0	0
KULANI CAMP 79		80.5M	62.6M	71.6M		84	22	60	9*		0	0	0	0	1.93		.67	8	.0	0		5	1	0	0
PAHALA 21											0	0	0	0	1.29		.48	29	.0	0		4	0	0	0
POHAKULOA 107	A													.84		.84	28	.0	0		1	1	0	0	
PUUKOHOLA HEIAU 98.1	A	88.8M	69.3M	79.1M		95	20*	65	3*		4	0	0	0	.00		.00		.0	0		0	0	0	0
PUU HAWAII 94.1															.02		.02	3	.0	0		0	0	0	0
SOUTH KONA 2.31		77.1M	57.3M	67.2M				53	3		0	0	0	0	.64		.37	10	.0	0		2	0	0	0
WAIKAEA SCO 88.2														3.80		.60	14	.0	0		12	1	0	0	
ISLAND				70.7										1.75				.0							

SEE REFERENCE NOTES FOLLOWING STATION INDEX

## MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

HAWAII AND PACIFIC  
JUNE 1977

STATION	TEMPERATURE										PRECIPITATION													
	AVERAGE MAXIMUM	AVERAGE MINIMUM	AVERAGE	DEPARTURE FROM NORMAL	HIGHEST	DATE	LOWEST	DATE	DEGREE DAYS	NO. OF DAYS				TOTAL	DEPARTURE FROM NORMAL	GREATEST DAY	DATE	SNOW. SLEET			NO. OF DAYS			
										MAX.	MIN.	10° OR BELOW	32° OR BELOW					TOTAL	TOTAL	MAX. DEPTH ON GROUND	DATE	10 OR MORE	50 OR MORE	100 OR MORE
PACIFIC																								
* * *																								
EAST OF 180TH																								
MERIDIAN																								
CANTON ISLAND	89.2M	79.0M	84.1M		91	27+	71	16		0	0	0	3.11		.83	29	.0	0			2	0		
FAGA ALU RESERVOIR													4.91		.67	5	.0	0			12	3	0	0
FALEASAO VILLAGE													.90		.30	7	.0	0			3	0	0	0
JOHNSTON WSO AP	R	82.8	75.7	79.3	-.9	84	30+	72	4		0	0	0	0	-.13	.70	6	.0	0		8	3	0	0
LEONE		85.8M	78.7	82.3M		92	8	76	29+		1	0	0	0		2.10	6	.0	0		8	3	2	
FRENCH FRIGATE SHOALS		83.6	72.4	78.0	.6	87	29+	68	11		0	0	0	0	.18	- 1.29	.08	19	.0	0	0	0	0	0
MIDWAY SAND ISLAND		82.4	72.6	77.5	1.8	85	26+	68	7		0	0	0	0	.23	- 2.73	.09	29	.0	0	0	0	0	0
PAGO PAGO WSO AP	R	84.0	77.0	80.5	1.4	87	9+	73	8+		0	0	0	0	5.19	- 4.22	4.40	6	.0	0	5	1	1	
* * *																								
WESTERN PACIFIC ISL.																								
NORTH OF 12 N																								
ANDERSEN AFB GUAM		84.0	77.2	80.6	-.2	86	11+	74	15		0	0	0	0	7.83	3.19	3.66	24	.0	0	16	2	1	
CLARK AFB LUZON		91.1	75.5	83.3	1.4	95	11+	73	14+		27	0	0	0	5.41	- 5.48	2.67	13	.0	0	7	3	2	
GUAM NAS		87.3	78.4	82.9	1.1	89	19+	76	26+		0	0	0	0	4.35	-.56	.75	25	.0	0	11	4	0	
GUAM WSO	R	86.9	73.3	80.1	.3	88	21+	70	5		0	0	0	0	5.10	-.09	1.00	24	.0	0	12	3	1	
MANGILAO															7.51		2.70	19	.0	0	14	3	1	
ROTA															7.47		1.45	28	.0	0				
SAIPAN LORAN																								
WAKE WSO AP	R	88.9	75.6	82.3	-.8	91	2	73	26+		11	0	0	0	1.83	-.52	.99	4	.0	0	3	1	0	
* * *																								
CAROLINE AND																								
MARSHALL ISLANDS																								
ANGUAR																								
ENIWETAK		86.6	81.4	84.0	1.2	88	24+	79	30		0	0	0	0	11.29	-.09	1.75	21	.0	0	18	8	4	
FALALOP I. ULITHI															1.31	- 2.63	.26	15	.0	0	6	0	0	
KAPINGAMARANGI ATOLL		87.8	74.1	81.0		92	28+	70	22		7	0	0	0	9.89		1.42	1	.0	0	19	6	3	
KOROR WSO	R	88.6	76.4	82.5	-.9	91	21+	74	10		7	0	0	0	11.15	- 2.60	2.67	27	.0	0	19	5	3	
KWAJALEIN MISSILE RGN	R	86.6	77.6	82.1	.2	88	19+	73	14		0	0	0	0	7.93	- 2.00	2.75	21	.0	0	11	4	2	
LELE I. KUSAIE																								
MAJURO WSO AP	R	86.4	76.0	81.2	.2	88	30+	73	21		0	0	0	0	8.37	- 3.80	1.40	28	.0	0	17	6	2	
METALANIM		84.4	76.0	80.2		87	14	72	14		0	0	0	0	13.68		1.87	29	.0	0	18	11	4	
MOKIL ATOLL																								
NGASANG.88BELTHUAP																								
PONAPE WSO	R	87.8	75.2	81.5	1.0	90	19+	71	14		4	0	0	0	14.70	-.96	2.16	23	.0	0	22	11	5	
SATAWAN ATOLL																								
TRUK. MOEN I. WSO AP	R	88.1	76.8	82.5	1.2	90	20+	73	29+		2	0	0	0	7.07	- 5.52	1.09	28	.0	0	18	6	1	
WOLEAI ATOLL																								
YAP WSO AP	R	87.8	74.4	81.1	-.6	89	30+	71	11+		0	0	0	0	7.49	- 3.41	2.29	22	.0	0	13	4	2	

SEE REFERENCE NOTES FOLLOWING STATION INDEX



HAWAII AND PACIFIC  
JUNE 1977SEE REFERENCE NOTES FOLLOWING STATION INDEX

HAWAII AND PACIFIC  
JUNE 1977SEE REFERENCE NOTES FOLLOWING STATION INDEX

# DAILY PRECIPITATION

HAWAII AND PACIFIC  
JUNE  
1977

STATION	TOTAL	DAY OF MONTH																														
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
HAWAII																																
KULIMAELE MILL 206	1.13		.04	.03	x	x	.37	.01				x	x	.05	.01			x		x	.01	.25		.12	.07	x	x	.15			.02	
KULANI CAMP 70	1.93			.03			.06	.18	.67			.06	x	.07	.18	.03		.05	.18		.02	.04	.03								.03	.30
KULANI MAUKA 76	.91																														.15	.76
KULANI SCHOOL SITE 76	1.40	x	x	x		.08	x	x	x	x		.73	x	x	x	x	x	x	.60	x	x	x	x	x	x	.07	x	x		x	x	
LANIHAU 68.2	3.11	.02			.08	x	.07		.21						.25		.23	.31	.19	.08			.05	.18	.03	.02	.11	.65			.65	.06
MAKAHALAU 103	.25			.05																				.20								
MAKAHA 2	.50						T			.20	x	x	x	.30																		
MAUNA KEA OBS 111.2	.33																													.25	x	.08
MAUNA LOA SLOPE OBS	.05																													.03	.01	.01
MIDDLE HOLUALOA 68.1	1.46	x	x	x	x	x	.16	x	x	x	x	x	x	x	x	x	x	x	x	.90	x	x	x	x	x	x	x	.40	x	x	x	
MIDDLE PEN 147.1	3.52	x	x	x	x	x	x	2.21	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	1.31	x	x	x	
MAKULA 18	.03																														.03	
MOUNTAIN VIEW 91	4.40	.06	.11	.18	.05	.02	.67	.02	.05		.04	.08	.16		.43	.05	.01	.14	.32	.36	.14	.22	.05	.21	.05	.21	.17	.20	.09	.03	.37	
MAULEHU 14	.90				x	x	.35				.01											T						T	T	.36	.15	
MAPOOPOO 28	1.50	x	x	x	x	x	.15	x	x	x	x	x	x	.70	x	x	x	x	x	x	.36	x	x	x	x	x	x	.29	x	x	x	
MAKALA 223	1.46	T	.02	T	.02	.09	.35	.01			.17	.07		.07	.02	.02	T	.10	.20	.03	.10		.10	T	.04	.02			T	.03		
OPINIMALE 2 24.1	3.30	.07	T	T	.02	.01	.23	.09	.63	.69	.10	.02		.06	T	.56	.09	.01	.02	.09	.06	.02	.05	.03	.13	.01	.13	.08	.10	T		
ORCHID LAND EST 91.5	4.18	x	x	1.41	x	x	x	x	x	.48				x	x	x	x	1.22	x	x	x	x	x	x	1.07	x	x	x	x	x	x	
PARAHU 217	.53			.01	.08	.12					.03	.03		.01								.02	.01	.05	.07	.02	.01				.07	
PARUULO 221	.77				.18	.03	.21	.05			.03	.01		T					.05	.05	T	T		.10	T					.06		
PAHALA 21	1.29					.08	.17			.24																				.48	.25	
PAHALA 65	5.37	.22	.26	.15	.02	.02	.05	.37	.09	.23	.19	.15	.25		.77	.26	.08	.14	.75	.31	.13	.19	.12	.18	.12	.08			.12	.05	.07	
PAHALA 37	.00				x	x	.25	.19	.01	.01	.04	x	x	.40	.34	.01	.01	.14	x	x	.51	.31	.01	.04	.03	x	x	.49	.02	.01	.14	
PAPAIKOU 144.1	3.05	.03	.03	.04	x	x	.23	.06			.25	x	x	.31	.55	.06	.03	.10	x	x	.95	.26	.01	.32	.11	x	x	.15	.13	.04	.14	
PAPAIKOU MAUKA 140.1	3.95	.05	.15	.05	x	x	.23	.06			.25	x	x	.31	.55	.06	.03	.10	x	x	.95	.26	.01	.32	.11	x	x	.15	.13	.04	.14	
PIIMAHUA 89	2.40	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	2.40	
POWAKULA 107	.84				x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	.84	
PUUKOHOLA HEIAU 98.1	.00				x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	.45	
PUU LEHUA 73	.45	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	.45	
PUU MAHUA 94.1	.02			.02																												
SADOLE ROAD 1 84	4.44	x	1.00	x	x	x	x	x	x	.35	x	x	x	x	x	x	.97	x	x	x	x	x	x	1.57	x	x	x	x	x	x	x	.56
SOUTH KONA 2 31	.64	.02	x	x	.12						.37						.97	x	x	x	x	x	x	1.57	x	x	x	x	x	x	x	.02
SOUTH POINT CORRAL 3	.10	x	x	x	x	x	x	.10																							.06	.02
UPBLU POINT USCG 159.2	.81			.05	T	T	.05						T	T			.01	T		T	T	T		.70	T	T	T	T			T	
WAIKAKA SCD 88.2	3.80	.05	.06	.28	.08	.02	.07	.01			.29	.16		.14	.60	.05	.07	.07	.27	.21	.03	.39	.03	.33	.03	T		.14	.10		.32	
WAIKAKA-8015 CAS 95.8	.38				x	x	.03	T																.35						T		

SEE REFERENCE NOTES FOLLOWING STATION INDEX

# DAILY PRECIPITATION

HAWAII AND PACIFIC  
JUNE  
1977

STATION	TOTAL	DAY OF MONTH																															
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
PACIFIC																																	
* * *																																	
EAST OF 180TH MERIDIAN																																	
CANTON ISLAND	3.11	.31	-	-	-	-	-	-	.25	.03	-	-	-	-	-	-	-	.12	-	-	-	.02	-	-	.38	.06	-	-	.13	.90	.83	.19	-
PAGA ALU RESERVOIR	4.01	-	-	-	.45	.67	.14	.09	.36	.01	.31	.42	.05	.07	.15	-	-	T	.39	.65	.23	.04	.64	T	-	-	-	-	.11	.09	-	.07	-
FALCASO VILLAGE	.90	.01	.04	.01	.11	.05	.30	T	-	-	T	.10	.03	T	.03	.02	.07	T	-	T	.02	.03	.01	T	T	-	-	.07	T	-	-	-	-
JOHNSTON WSO AP	5.51	.04	.02	-	.17	2.10	.79	-	-	-	-	.10	-	-	-	-	.07	T	-	.01	.04	-	.22	-	-	1.63	.06	.05	.19	.10	-	-	-
LEONE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
FRENCH FRIGATE SHOALS	.18	-	-	-	.02	-	-	-	-	-	-	.03	T	-	-	-	-	.01	-	.09	.03	-	-	-	-	-	.01	-	-	-	-	-	
MIDWAY SAND ISLAND	.23	T	T	-	.01	T	-	-	-	-	.01	-	-	-	T	-	-	-	-	T	-	-	-	-	.02	.03	-	-	.07	.08	-	-	-
PAGO PAGO WSO AP	5.19	T	-	-	.10	.15	4.40	.04	T	-	.02	.03	.01	T	T	.01	-	T	-	T	-	-	T	T	.18	.03	T	-	.22	T	-	-	-
* * *																																	
WESTERN PACIFIC ISL.																																	
NORTH OF 12 N																																	
ANDERSEN AFB GUAM	7.03	.02	.03	-	T	.33	.01	.08	.23	T	T	.22	.29	.11	.12	.47	.11	.13	.36	.01	.25	T	.01	.13	3.66	.21	.05	.26	.01	.04	.68	-	-
CLARK AFB LUZON	5.41	-	.50	1.23	.14	.33	.04	T	-	.13	-	.02	T	2.67	-	.13	.06	.04	.36	-	-	T	-	-	-	.37	T	-	T	.04	.04	-	-
GUAM NAS	4.35	T	-	-	T	.34	T	.20	.53	.01	T	T	.02	T	.09	.59	.12	T	T	T	.05	-	.10	.06	.69	.75	.02	.09	.21	.21	.31	-	-
GUAM WSO	5.10	-	.02	-	.52	.01	.10	.03	.01	.39	.09	.04	.32	.17	.93	.02	.07	.09	-	.07	.15	.01	.07	.06	1.00	.19	.23	.01	.05	.30	.26	-	-
MANILA	7.51	.06	.04	-	.01	.19	.05	.52	.26	.01	.13	-	.01	.06	.94	.39	.09	-	2.70	.01	-	.29	.33	.49	.01	.18	.15	.08	.20	.30	-	-	-
ROTA	7.47	-	.19	.16	.24	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SAIPAN LORAN	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
WAKE WSO AP	1.83	.01	-	-	.99	T	.05	T	.08	.07	.01	T	T	T	-	.04	.03	T	.11	.03	.01	.04	.09	.01	T	.06	.13	.07	-	T	T	-	-
* * *																																	
CAROLINE AND MARSHALL ISLANDS																																	
ANGUAD	11.29	.01	.32	.47	.13	.05	.05	1.09	1.52	.75	.21	.03	.02	-	-	.02	.42	.21	.63	-	.02	1.75	1.00	.30	.95	.08	.52	.17	.12	.04	.41	-	-
ENIETAK	1.31	-	-	.01	-	-	.02	-	-	.21	.01	-	.09	.02	-	.26	.02	-	.10	.01	-	.01	.15	-	-	.06	-	.13	-	.01	.20	-	-
FALALBP 1, ULITHI	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
KAPINORABANGI ATOLL	8.98	1.42	.02	.25	.05	-	.07	.42	.19	.32	.21	1.12	.34	.47	.12	.12	.03	.17	1.26	.41	.82	.34	-	-	.68	-	-	-	-	-	.77	-	-
KOROR WSO	11.15	-	-	.13	.04	.41	.11	.41	.44	.46	1.14	.06	.48	.29	.37	1.52	.33	.07	.27	.05	T	.09	.16	.29	.06	.56	.03	2.67	.03	.52	.19	-	-
KUJALEIN MISSILE RM	7.03	.06	.01	-	-	-	T	.41	.01	.03	.03	.26	.08	.03	.89	.22	-	-	T	.16	.50	2.75	.09	.16	.07	-	-	-	-	.02	.15	-	-
LEE 1, KUSAE	-	-	-	-	-	-	-	-	-	-	.06	.20	.80	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
MAJURO WSO AP	9.37	.17	.01	.08	-	.24	T	.03	.12	-	-	-	.73	.53	.19	.10	.16	-	.65	.02	1.34	.39	.48	.33	.19	.01	.04	1.40	.09	.02	-	-	
METALANIM	13.68	.26	1.55	.30	.54	.02	.01	-	-	.07	.24	.16	.09	1.54	.02	.01	.26	-	.54	.26	.99	.77	.03	.86	1.24	.09	.44	.77	.05	1.87	.72	-	-
MOELI ATOLL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
NGASANG, BABELTHUAP	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
PNAPAE WSO	14.70	.31	1.09	.39	.51	-	-	-	.18	.03	.32	.55	.23	1.33	.19	.06	.59	.29	.39	.04	.59	.50	-	.02	2.16	.72	.02	.48	.36	-	.17	1.98	1.32
SATAHAN ATOLL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
TAUK, MOEN 1, WSO AP	7.07	.69	.06	.54	.69	.06	.33	-	-	T	.17	.02	.21	.11	.01	.13	.32	-	T	.13	.16	.33	.48	.59	.01	.11	.50	.04	1.09	.05	.26	-	-
WOLEAI ATOLL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
YAP WSO AP	7.49	-	.09	.37	.25	-	-	.25	1.27	.06	.17	.07	.53	.31	.62	.01	.21	T	-	.06	.23	.03	2.29	.02	.41	.10	.09	.01	.01	.01	.02	-	-

SEE REFERENCE NOTES FOLLOWING STATION INDEX

# DAILY TEMPERATURES

HAWAII AND PACIFIC  
JUNE 1977

STATION		DAY OF MONTH																															AVERAGE
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
HAWAII																																	
ISLAND OF KAUAI																																	
KANALOHULUHULU 1075	MAX MIN	75 53	74 55	72 55	72 55	69 57	68 50	71 45	69 47	71 49	74 61	71 63	71 64	74 60	72 56	75 56	69 58	73 56	71 58	70 56	72 56	75 57	80 53	71 57	76 55	72 56	74 55	73 50	69 50	71 48	72 55	72.2 54.9	
KILAUEA POINT 1133	MAX MIN	82 70	81 72	82 72	82 68	82 69	78 70	81 70	81 71	82 70	85 72	82 73	81 70	82 70	83 72	83 73	84 71	82 73	81 71	82 70	83 70	84 73	85 72	84 73	83 72	84 71	83 72	84 71	83 72	84 71	83 73	82.6 71.3	
KOLOA LN (MAK) 940.1	MAX MIN	83 71	83 72	83 71	83 68	83 69	81 69	82 70	84 70	84 68	81 73	83 74	84 71	84 71	83 73	84 73	81 71	83 72	83 71	84 70	84 71	85 71	84 73	85 72	85 73	85 71	85 71	85 71	86 71	86 72	86 73	83.7 71.3	
LIMUE WSO 1020.1 AP	MAX MIN	81 71	81 73	81 71	80 70	80 70	80 69	80 70	80 70	79 69	80 74	81 75	81 71	82 73	82 72	82 74	82 73	82 72	82 72	82 72	83 74	82 74	83 74	82 73	83 72	82 71	82 72	82 72	83 74	82 72	83 74	81.5 72.1	
MANA 1026	MAX MIN	87 65	87 64	89 65		84 63	87 63	85 64	86 66	87 68	89 68	87 68	86 65	88 67	89 67	88 66	89 65	89 65	86 67		87 68	88 68	88 64	90 63		89 66	88 66	85 66	85 66	88 66	88 66	87.3 65.9	
NIU RIDGE 1035	MAX MIN	85 59	85 61	84 60		84 59	84 59	84 59	84 62	81 62	86 63			85 60	86 63	87 61	87 64	85 62		87 61	84 63	86 62	85 60			88 62	82 62	82 63	82 63	85 63	85 63	85.0 61.5	
WAIAMI LOWER 1054	MAX MIN	75 65	74 65	74 65	74 63	75 65	70 58	71 61	73 60	74 62	75 65	75 65	74 65	74 66	75 65	76 65	76 66	77 65	74 66	73 65	73 66	74 67		75 66	76 65	77 63	74 65	75 65	75 64	76 66	76 64	74.5 64.4	
ISLAND OF OAHU																																	
ALOHA STADIUM-HALAWA	MAX MIN	84 69	82 69				83 68	82 66	83 67	86 67	85 69			85 69	83 70	83 71	84 72	84 70		85 71	82 74	86 74	84 72	85 71			86 68	87 69	88 68	86 70	84.4 69.7		
B Y U LAIE 903.1	MAX MIN																																
EWA PLANTATION 741	MAX MIN	84 69	84 69	84 69	84 69	83 69	83 65	82 64	82 64	83 66	85 64	82 69	82 67	85 67	84 69	85 68	85 69	85 69	84 70	85 69	86 71	88 70	87 67	86 67	84 70	85 68	88 65	83 65	85 65	87 68	84.5 67.7		
HONOLULU WSO 703 AP	MAX MIN	85 72	85 72	85 72	85 73	82 71	86 69	85 68	85 69	86 69	87 72	86 75	86 74	86 72	87 73	87 75	87 75	86 73	88 74	87 75	86 76	88 75	87 75	87 74	86 73	88 73	85 70	87 68	89 69	87 76	86.3 72.6		
KANEHE MAUKA 781	MAX MIN	80 70	78 70	79 69	79 68	81 68	78 69	80 70	80 70	82 70	80 70	81 71	80 71	80 69	81 70	81 70	80 71	80 70	80 71	80 71	80 72	78 73	81 71	79 72	82 71	78 69	81 71	83 72	82 72	80 73	83 73	80.3 70.5	
MANOA LYON ARBORETUM	MAX MIN	78 66	72 67	75 67	76 65	80 66	79 66	79 67	82 68	82 66	81 67	77 67	75 67	74 67	78 67	79 67	80 68	81 68	76 69	79 68	78 69	81 70	76 69	76 69	76 69	78 67	81 66	81 66	82 66	82 66	78.3 67.5		
OPAUELA 870	MAX MIN	76 66	76 64	76 64	76 63	76 63	76 62	76 62	76 63	80 63	80 63	80 66	80 66	80 65	80 64	80 66	80 66	80 65	80 65	80 66	80 64	79 67	79 67	79 66	79 66	80 64	80 66	80 64	80 66	80 64	78.8 64.6		
WAIALEE 896.3	MAX MIN	81 70	79 69	81 70	81 69	81 69	80 69	80 71	83 68	83 70	82 71	82 73	81 72	81 72	81 70	82 70	82 70	83 70	83 70	82 72	83 71	82 72	82 71	82 72	82 71	83 69	82 72	83 70	85 73	84 70	84 73	82.1 70.8	
WAIALUA 847	MAX MIN	84 65	80 64	82 66	83 67	84 68	79 69	83 60	84 64	86 66	87 60	84 62	83 64	81 66	82 69	84 64	85 65	84 68	85 69	85 71	82 68	82 69	85 66	85 63	84 66	84 66	85 66	87 66	87 66	85 65	85 65	84.0 65.3	
WAIKIKI 717.2	MAX MIN	85 69	85 70	84 68	85 69	85 66	82 66	84 68	86 66	84 66	86 67	85 70	85 68	85 70	85 68		87 70	87 71	87 71	87 70	87 71	87 71	86 69	87 71	86 69	87 69	87 66	88 66	89 66	89 66	89 68	86.1 68.8	
WAIMANALO EXP FARM	MAX MIN	81 69	80 70	81 68	81 71	82 70	80 67	80 70	82 71	82 72	83 71	82 71	82 71	81 71	82 69	82 72	83 73	83 72	83 71	83 70	83 72	83 72	83 71	83 72	84 70	84 70	82 70	83 73	83 70	84 71	82.2 70.9		
ISLAND OF MOLOKAI																																	
MOLOKAI AP 524	MAX MIN	84 69	82 68	82 69	82 68	81 68	82 68	84 66	86 65	84 64	83 65	85 68	84 69	82 68	82 69	82 70	85 70	82 68	82 70	83 70	83 70	83 68	84 72	82 71	85 70	88 70	85 70	84 70	84 69	88 69	85 70	83.6 68.7	
ISLAND OF LANAI																																	
LANAI AIRPORT 656	MAX MIN																																
LANAI CITY 672	MAX MIN																																
ISLAND OF MAUI																																	
HALEAKALA RS 338	MAX MIN	72 55	75 55	69 54	70 45	71 46	65 42	64 39	61 41	62 38	64 41	61 43	67 41	65 49	68 53	65 42	68 49	69 47	65 51	68 33	69 39	65 51	74 53	74 47	70 54	72 49	68 39	62 40	64 43	66 47	67 44	67.4 45.7	
HANA AIRPORT 355	MAX MIN	81 69	80 68	81 68	81 67	80 65	82 68	78 67	80 69	82 67	82 67	81 66	82 66	81 68	82 69	82 69	82 69	83 68	83 70	81 70	84 70	90 76	81 70	81 68	82 68	82 68	83 68	84 69	84 70	81.6 69.2			
KAAHAPALI AP 453.1	MAX MIN	81 69	80 69	82 68	82 67	81 63	81 61	82 63	83 64	84 63	83 65	84 67	83 69	82 69	82 68	83 68	84 68	82 68	82 65	82 68	84 65	80 69	83 67	83 65	84 69	84 67	84 65	84 65	84 66	84 66	84 67	82.6 66.8	
KAHULUI WSO 398 AP	MAX MIN	85 70	83 70	83 70	81 69	82 69	82 70	82 62	88 64	85 62	86 65	84 70	81 71	84 72	85 70	85 70	85 74	85 71	85 72	84 70	85 72	85 71	84 71	86 71	83 71	86 66	83 71	86 66	88 67	86 73	84.3 68.6		
KAILUA 446	MAX MIN	77 66	76 67	77 69		79 62	75 63	78 63	78 68	78 66				78 66	78 69	76 65	77 67	78 67		77 69	75 69	79 69	79 68			80 65	79 66	81 66	81 66	77.9 66.4			
KEAWAKAPU BEACH 260.2	MAX MIN	87 63	89 65	90 63	87 65	84 63	85 65	85 62	87 65	87 65	86 63	89 64	92 64	89 65	91 66	92 62	90 66	92 66	90 68	88 65	88 67	90 65	89 65	86 68	88 64	90 66	87 63	88 65	88 66	88 69	88.3 65.2		
KULA SANATORIUM 267	MAX MIN	70 60	71 54	73 55	73 56	72 57	70 59	70 60	72 60	69 58	71 58	73 57	75 58	74 60	73 60	75 57	73 58	75 59	73 60	73 57	72 57	72 56	75 55	74 55	75 56	75 54	73 55	73 56	74 62	74 63	73.0 57.7		

SEE REFERENCE NOTES FOLLOWING STATION INDEX



# DAILY TEMPERATURES

HAWAII AND PACIFIC  
JUNE 1977

STATION		DAY OF MONTH																															AVERAGE
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
HAWAII																																	
LAHAINA 361	MAX MIN	85 66	86 66	86 67	85 66	85 66	87 65	84 66	86 66	87 67	86 67	89 66	85 68	88 65	90 68	88 69	88 69	88 70	88 68	89 69	88 67	86 68	86 67	85 67	88 68	88 67	88 67	86 67	86 70	88 69	89 68	87.0 67.3	
MAILUKU 386	MAX MIN	80 69	80 69	80 70			80 65	79 69	80 68	82 70	81 70			81 70	80 71	81 70	81 70	81 71			82 70	80 72	83 72	79 72	82 71			82 70	85 72		83 75	81.0 70.3	
* * *																																	
ISLAND OF HAWAII																																	
HAWAII VOLCNS NP H0 54	MAX MIN	68 55	71 54	69 51	68 52	70 51	72 51	69 54	70 54	71 52	69 52	68 52		71 51	71 52	71 53	70 54	70 53	68 53	69 53	72 55	72 53	74 57	69 54	70 53	70 51	71 53	72 51	74 55	75 55	70.4 53.0		
HILO WSO 87 AP	MAX MIN	86 67	81 66	84 65	83 67	84 66	83 67	87 67	87 65	85 65	86 67	85 68	85 68	84 66	85 69	84 67	84 66	85 69	84 66	85 66	82 71	86 70	85 69	84 68	85 65	86 69	87 69	86 69	86 68	87 70	84.8 67.5		
KAINALIU 73.2	MAX MIN	74 61	76 61	79 61	78 60	78 59	77 58	77 59	78 59	75 57	74 57	75 59	76 59	75 60	78 62	78 60	76 62	75 63	73 60	74 61	78 61	76 64	78 62	78 60	76 59	78 59	77 60	79 63	76 64	76 61	76.4 60.4		
KAMUELA 192.2	MAX MIN	70 60	72 60	68 59			77 55	73 58	75 50	75 50	72 50			71 59	70 59	72 58	72 60			73 59	70 60	75 61	73 60	70 60			74 56	77 61	77 61	73 61	72.7 58.0		
KAPOHO BEACH 93.11	MAX MIN							88 66	86 66	84 66	85 68	87 68	86 69	85 68	84 69	85 68	85 69	87 70	85 70	85 73	86 71	87 70	85 68	87 71	85 68	87 71	88 72	91 72	87 64	89 70	89 67	86.0 68.8	
KEAAU 92	MAX MIN	79 66	81 66	77 64	80 64	80 65	80 65	80 65	81 64	82 63	80 64	80 64	80 67	80 65	80 66	82 66	81 65	81 66	80 66	81 65	79 68	83 69	80 67	81 67	81 66	83 67	83 65	81 67	83 67	83 67	80.7 65.4		
KEALAKEKUA 2 28.7	MAX MIN	77 63	78 63	78 63		77 62	77 60	78 60	76 61	78 60	76 61	78 60	78 60	76 61	78 64			74 65	77 64	74 60	76 63	80 63	78 66	74 66	75 66		78 61	77 62	80 65	76 67	76.9 62.6		
KOHALA MISSION 175.1	MAX MIN	79 67	79 68	78 65	78 66	79 65	80 65	80 64	79 64	80 66	80 67	79 66	79 66	79 70	79 68	79 69	80 69	80 67	80 69	77 69	78 68	80 67	80 67	80 67	80 69	80 65	81 65	82 69	81 66	79 69	79.5 66.9		
KONA (KAILUA) 68.3	MAX MIN	80 69	83 71	81 70			85 68	84 70	85 68	85 69				85 68	83 69	83 70	85 72	82 71			83 68	85 72	85 74	83 72	82 70			83 68	86 73	85 73	83 72	83.6 70.3	
KULANI CAMP 79	MAX MIN	65 49	67 53	64 39	65 41	69 36	68 34	68 39	63 38	62 38	63 42	59 44	62 40	65 40	61 40	67 42	66 40	65 41	66 46	65 40	67 42	67 41	70 50	69 42	65 44	68 48	63 52	63 43	69 44	65 47	67 51	65.2 47.0	
MAUNA LOA SLOPE 085	MAX MIN	58 40	58 41	57 44	56 39	53 36	52 34	50 39	50 38	57 38	57 38	61 42	59 44	60 42	61 40	57 40	59 42	56 41	59 42	63 45	55 43	54 39	53 37	52 36	53 36	49 33	48 33	51 31	47 35	47 35	49 36	54.7 38.6	
MOUNTAIN VIEW 91	MAX MIN	76 62	78 61	75 59	75 59	80 59	80 59	78 61	78 58	80 57	79 59	78 58	78 59	78 59	77 62	79 61	77 61	78 61	76 59	78 60	76 63	80 64	76 62	76 61	80 57	80 57	79 63	79 62	79 64	79 64	79 64	78.0 60.2	
NAALEHU 14	MAX MIN	75 65	78 67	76 64			78 64	78 63	77 65	78 64				78 66	80 65	80 67	80 68			79 67	80 66	80 66	80 68	78 65			80 63	80 67	78 66	80 64	78.6 65.0		
OOKALA 223	MAX MIN	78 65	80 66	79 67	79 67	86 64	84 65	80 66	80 65	80 66	80 66	79 67	80 65	79 67	80 68	80 68	80 68	80 68	80 63	79 65	80 69	79 69	81 68	81 63	79 65	81 65	80 65	80 65	80 69	80 69	80 69	80.1 66.4	
OPIHIHALE 2 24.1	MAX MIN	78 65	76 59	82 61	75 64	79 57	81 57	79 58	76 58	79 58	78 57	76 56	78 58	76 62	80 59	81 60	82 63	82 63			81 63	82 63	84 62	82 65	80 62		82 61	81 64	78 64	76 61	76 61	77.9 60.2	
PAHALA 21	MAX MIN	78 63	79 62	81 60			80 60	78 62	79 64	79 60	79 62			80 62	83 66	81 62	82 63			81 63	82 63	84 62	82 65	80 62			82 61	81 64	78 64	81 64	80.5 62.6		
PUUKOHOLA HEIAU 98.1	MAX MIN	89 65	87 70	89 65	90 69	88 69	88 67		89 67	88 66	87 66	87 66	89 66	91 71	89 70	89 69	88 69	88 73	88 70	95 73	95 70	88 74	89 69	88 70	89 67	87 67	88 69	86 70	88 73			88.8 69.3	
SOUTH KONA 2-31	MAX MIN	76 56	78 60	77 53	74 54	74 57	75 55	77 57	78 58	77 57	75 54	73 57	77 59	78 57	79 62	80 54	81 57	79 56	78 62	74 60	78 60	81 59										77.1 57.3	
UPOLU POINT USCG 159.2	MAX MIN	82 69	83 69	82 68	83 67	82 66	82 68	83 67	84 69	84 64	83 68	82 68	82 68	74 68	79 70	84 69	82 70	83 69	84 69	84 72	84 72	84 66	82 70	84 68		83 65	85 65	84 67	86 70	86 69	86 69	83.0 68.1	

SEE REFERENCE NOTES FOLLOWING STATION INDEX

# DAILY TEMPERATURES

HAWAII AND PACIFIC  
JUNE  
1977

STATION		DAY OF MONTH																															AVERAGE
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
PACIFIC																																	
• • •																																	
EAST OF 180TH MERIDIAN																																	
CANTON ISLAND	MAX MIN	90 82	90 79	90 79	89 81	90 81	90 81	90 81	90 82	83 76	89 83	87 80	89 79	89 79	90 71	89 78	90 77			90 77	91 81	91 73	90 80	89 79	90 79		91 82	90 77	82 78	89 79		89.2 79.0	
JOHNSTON WSO AP	MAX MIN	83 77	83 75	83 77	82 72	81 74	83 77	82 73	82 76	83 76	83 74	82 74	83 73	82 74	83 75	81 74	83 77	83 77	83 78	83 78	83 78	84 77	83 78	84 77	82 74	84 77	83 77	84 77	84 77	84 77	84 78	82.8 75.7	
LEONE	MAX MIN	85 78	86 78	86 78	86 78	85 77	89 80	92 81	88 81	87 80	86 81	88 80	89 80	86 79	85 78	84 77	85 77	86 80	86 81	87 82	86 79	83 76	81 76	83 76	85 79	86 78	86 79	86 78	83 79	85 76	85 77	85.8 78.7	
FRENCH FRIGATE SHOALS	MAX MIN	81 73	82 73	81 73	85 72	82 73	78 70	81 69	82 74	82 74	82 73	84 70	83 73	83 70	83 72	85 73	86 75	84 73	85 71	84 74	86 74	86 74	84 74	86 73	84 73	87 73	87 73	84 71	87 73	86 73	83.6 72.4		
MIDWAY SAND ISLAND	MAX MIN	79 69	79 71	79 71	80 70	80 70	80 69	80 68	80 70	82 73	82 73	81 74	83 74	85 74	83 72	83 73	84 73	84 75	85 75	84 74	85 73	84 73	84 75	85 74	85 74	84 75	84 75	83 70	83 73	83 74	82.4 72.6		
PAGO PAGO WSO AP	MAX MIN	84 77	85 78	84 78	83 76	85 77	81 73	86 74	87 73	87 76	86 78	85 77	86 79	83 79	84 78	84 77	84 76	85 79	86 79	85 78	83 78	81 75	81 75	82 77	82 78	84 78	82 75	84 77	84 77	84 77	84.0 77.0		
• • •																																	
WESTERN PACIFIC ISL. NORTH OF 12 N																																	
ANDERSEN AFB GUAM	MAX MIN	85 77	85 76	85 78	84 78	82 75	86 78	84 76	84 77	85 79	84 78	86 79	84 78	84 79	83 75	85 74	84 78	84 79	84 79	84 79	84 79	85 78	85 78	80 75	83 77	84 78	84 77	82 76	84 77	82 75	84.0 77.2		
CLARK AFB LUZON	MAX MIN	91 75	91 75	90 75	91 73	91 75	91 77	93 75	91 75	95 73	91 75	95 79	93 77	86 75	88 73	91 75	90 75	91 77	90 77	90 77	91 77	93 77	93 75	93 77	91 75	88 75	91 75	91 75	90 75	91 75	91.1 75.5		
GUAM NAS	MAX MIN	89 78	89 80	88 79	85 78	86 79	89 79	88 78	88 79	88 79	88 79	87 80	87 79	87 76	88 76	88 79	89 79	89 79	87 79	87 79	87 79	83 77	88 79	88 76	88 78	88 78	84 78	86 78	85 77	87.3 78.4			
GUAM WSO	MAX MIN	88 72	88 72	88 72	88 72	86 70	87 75	87 73	88 72	88 72	88 74	87 74	87 74	86 72	87 72	88 75	87 76	88 76	87 74	87 72	88 72	87 76	83 77	86 73	86 73	87 73	86 72	84 75	87 75	86 73	86.9 73.3		
SAIPAN LORAN	MAX MIN																																
WAKE WSO AP	MAX MIN	89 75	91 76	90 76	81 73	88 74	89 76	89 76	88 75	90 76	89 75	90 75	90 76	88 77	90 76	89 74	88 76	88 75	88 75	89 77	90 77	90 75	88 74	89 77	87 77	90 77	89 73	89 76	88 77	88 76	88.9 75.6		
• • •																																	
CAROLINE AND MARSHALL ISLANDS																																	
ENIWETAK	MAX MIN	86 81	87 81	88 82	87 82	86 81	87 82	88 82	87 82	85 82	88 82	87 80	88 82	88 81	87 82	87 81	84 82	88 81	88 82	87 82	87 82	84 81	85 82	87 81	87 81	85 81	86 82	88 81	87 80	87 81	87 81	86.6 81.4	
FALALOP I. ULITHI	MAX MIN																																
KAPINGMARANGI ATOLL	MAX MIN	85 73	86 72	85 72	86 72	90 79	88 76	89 74	89 72	88 72	85 75	86 71	85 75	86 74	88 75	92 75	91 76	90 75	90 77	86 73	86 74	86 72	85 70	89 74	88 73	88 75	86 76	89 76	92 75	90 75	89 75	87.8 74.1	
KOROR WSO	MAX MIN	90 78	91 78	88 76	89 76	90 76	89 77	89 76	89 76	85 76	88 74	89 76	89 77	87 78	86 76	86 75	89 76	90 76	88 76	88 76	90 77	89 76	91 77	89 75	88 76	89 77	86 78	84 75	89 77	88 76	89 76	88.6 76.4	
KWAJALEIN MISSILE RGN	MAX MIN	87 77	87 80	87 79	87 79	87 80	87 79	86 76	87 77	87 79	87 79	88 76	86 78	87 79	84 73	86 76	87 79	88 80	87 80	87 80	88 76	87 74	84 75	87 76	87 76	86 78	82 75	87 78	87 77	87 80	86 78	87.6 77.6	
LELE I. KUSAIE	MAX MIN																																
MAJURO WSO AP	MAX MIN	86 77	86 76	87 76	87 78	86 76	87 76	87 79	87 76	88 78	88 78	87 76	86 74	87 74	85 76	86 75	86 76	87 80	87 77	82 74	87 76	86 73	87 75	83 75	87 75	87 76	87 76	85 74	86 77	88 77	86.4 76.0		
METALANIM	MAX MIN	85 79	83 74	85 76	86 73	86 79	85 79	85 79	84 79	85 79	84 78	85 76	86 76	82 77	87 72	84 78	85 80	85 76	85 76	85 76	82 78	83 78	83 76	85 75	85 75	86 74	85 74	86 74	83 74	83 74	84.4 76.0		
PONAPE WSO	MAX MIN	88 77	85 74	90 76	89 73	89 79	88 78	88 78	88 75	88 75	90 75	89 74	89 72	89 71	89 75	88 77	89 76	90 77	90 76	89 77	84 75	82 74	89 74	88 75	89 74	89 74	88 75	87 74	85 73	87.8 76.2			
SATAWAN ATOLL	MAX MIN																																
TRUK MOEN I. WSO AP	MAX MIN	87 73	88 75	88 77	89 76	89 78	88 75	89 77	90 78	89 80	86 77	88 78	87 78	89 75	89 76	83 78	88 78	88 80	89 80	88 77	90 78	89 76	88 76	87 77	86 77	88 76	88 75	83 75	89 73	89 76	88.1 76.8		
WOLEAI ATOLL	MAX MIN																																
YAP WSO AP	MAX MIN	89 71	88 74	89 73	88 75	87 75	89 77	88 75	88 71	83 71	88 74	88 71	89 76	87 75	89 77	87 73	89 73	89 76	88 77	88 76	89 75	85 72	88 72	87 72	87 72	89 75	87 76	87 74	87 74	88 77	89.2 74.4		

SEE REFERENCE NOTES FOLLOWING STATION INDEX

# EVAPORATION AND WIND

HAWAII AND PACIFIC  
JUNE 1977

STATION	DAY OF MONTH																															TOTAL OR AVG.	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
HAWAII																																	
ISLAND OF KAUAI																																	
LIHUE WSO 1020.1 AP	EVAP	.39	.29	.33	.32	.32	.24	.29	.33	.18	.21	.45	.52	.01	.57	.45	.16	.04	.16	.45	.38	.29	.33	.31	.34	.20	.37	.35	.34	.30	.40	9.32	
	WIND	210	400	*	174	109	106	125	134	110	115	192	199	195	189	169	171	188	205	225	231	199	183	162	188	191	143	149	157	126	170	5115	
	MAX	86	87	89	86	90	86	86	85	86	85	89	84	86	87	84	86	86	86	88	87	86	87	86	88	87	88	89	90	91	91	87.2	
	MIN	65	67	67	66	67	64	65	66	66	68	69	69	69	69	68	69	68	68	67	68	68	69	69	68	67	65	69	68	69	70	70	67.6
ISLAND OF OAHU																																	
HONOLULU OBSERV 702.2	EVAP	.45	.33	.33	.45	.45	.10	.30	.15	.30	.35	.35	.45	.23	.34	.45	.45	.35	.45	.36	.60	.35	.39	.30	.30	.35	.35	.30	.30	.30	.13	10.31	
	WIND	43	41	36	38	29	20	16	27	34	36	40	46	42	40	37	40	38	39	57	48	47	34	28	32	34	32	26	38	28	17	1063	
	MAX	92	90	90	90	94	83	83	84	91	89	90	91	86	91	96	94	94	90	92	93	89	91	94	91	90	93	93	90	89	87	90.3	
	MIN	69	69	69	69	68	67	67	67	68	67	68	68	69	69	69	69	69	69	68	68	70	68	68	68	68	70	68	69	68	68	68.4	

SEE REFERENCE NOTES FOLLOWING STATION INDEX

# EVAPORATION AND WIND

HAWAII AND PACIFIC  
JUNE 1977

STATION	DAY OF MONTH																															TOTAL OR AVG.
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
PACIFIC • • • EAST OF 180TH MERIDIAN																																
JOHNSTON WSO RP	EVAP	.44	.40	.37	.24	.33	.36	.26	.31	.33	.24	.55	.25	.38	.42	.35	.37	.33	.42	.42	.38	.54	.19	.38	.41	.42	.35	.33	.40	.35	.16	10.70
	WIND	248	239	244	237	216	179	200	152	126	211	207	203	265	238	233	264	236	239	231	226	214	289	250	243	205	222	187	151	148	149	6454
	MAX	88	87	89	87	82	91	85	92	93	90	88	92	89	89	90	88	89	89	89	89	88	88	89	91	89	87	89	92	93	94	89.2
	MIN	71	72	71	72	70	70	71	71	71	72	72	71	72	72	72	73	72	72	72	72	72	72	72	72	72	72	72	71	72	73	71.7
• • • WESTERN PACIFIC ISL. NORTH OF 12 N																																
GUAM WSMO	EVAP	.28	.28	.35	.28	.10	.33	.36	.32	.31	.30	.32	.20	.18	.30	.27	.23	.30	.19	.38	.33	.32	.30	.18	.17	.10	.30	.30	.06	.38	.17	7.89
	WIND	83	100	102	96	36	97	71	101	100	95	114	99	133	159	163	132	140	107	114	107	86	130	136	149	70	88	114	109	105	68	3206
	MAX	90	88	90	91	88	89	93	95	94	93	94	93	87	90	90	90	95	93	88	93	94	92	89	83	89	91	92	87	90	90	90.7
	MIN	74	73	73	73	74	73	74	75	73	73	73	73	74	73	73	72	73	74	73	73	73	75	73	73	73	74	73	74	74	72	73.3

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								TEMP.	PRECIP.	EVAP.	SPECIAL (SEE NOTES)	
HAWAII												
ISLAND OF KAUAI												
ALEXANDER RESV. 983	0140	02	KOLOA	2	21 57	159 32	1610					MC8RYDE SUGAR CO.
ANAHOLA 1114	A 0145	01	KAWAIIHOU	1	22 08	159 18	180					LIHUE PLANTATION CO
8RYOESWOOD STA 985	A 0240	02	KOLOA	2	21 56	159 32	720	7A				MC 8RYDE SUG CO LTD
EAST LAWA 934	A 0456	02	KOLOA	2	21 55	159 30	440	7A				MC 8RYDE SUG CO LTD
ELEELE 927	A 0470	02	KOLOA	2	21 54	159 35	163	6A				MC 8RYDE SUG CO LTD
HALAULA 1110	A 0935	01	KAWAIIHOU	1	22 07	159 19	253	7A				LIHUE PLTN CO LTD
HALENANAOH 1006	A 1038	02	LIHUE	2	21 58	159 26	490	8A				LIHUE PLANTATION CO
HANAUEI TUNNEL 1053	A 1170	01	KAWAIIHOU	1	22 05	159 28	1218				5	LIHUE PLTN CO LTD
HUKIPO 945	2161	03	WAIIMEA	3	21 59	159 41	800	8A				KEKAHA SUGAR CO LTD
ILIILILUA INTAKE 1050	A 2222	02	LIHUE	2	22 02	159 28	1050	VAR				LIHUE PLTN CO LTD
INTAKE WAINIHA PC 1086A	2227	01	HANAUEI	1	22 09	159 34	690	WI				MC 8RYDE SUG CO LTD
KANALOHULUHULU 1075	3099	03	WAIIMEA	3	22 08	159 40	3600	7A				STATE DIVISION OF PARKS
KANEHA RESERVOIR 1092	A 3104	01	KAWAIIHOU	1	22 08	159 23	830	7A				LIHUE PLANTATION
KAPAA STABLES 1104	A 3159	01	KAWAIIHOU	1	22 05	159 20	175	7A				LIHUE PLTN CO LTD
KEALIA 1112	A 3982	01	KAWAIIHOU	1	22 06	159 19	9	7A				LIHUE PLTN CO LTD
KEKAHA 944	4272	03	WAIIMEA	3	21 58	159 43	9	8A				KEKAHA SUGAR CO LTD
KILAUEA 1134	A 4561	01	HANAUEI	1	22 13	159 25	320	7A				NICK RAPOZO
KILAUEA POINT 1133	4568	01	HANAUEI	1	22 14	159 24	180	8A				MELVALEIGH SEILLEMAKER
KOLO 1033	4735	03	WAIIMEA	3	22 04	159 46	36	7A				KEKAHA SUGAR CO LTD
KOLOA 936	A 4742	02	KOLOA	2	21 55	159 28	240	8A				MC8RYDE SUGAR CO
KOLOA LN (MAK) 940.1	4748	01	KAUAI	2	21 52	159 27	52	7A	7A			AUSCG LORAN STATION
KOLOA MAUKA 994	A 4750	02	KOLOA	2	21 57	159 29	640	7A				MC8RYDE SUGAR COMPANY
KUKULULA 935	A 4950	02	KOLOA	2	21 54	159 30	100	6A				MC 8RYDE SUG CO LTD
LIHUE VARIETY ST 10621A	5560	02	LIHUE	2	22 01	159 23	380	7A				LIHUE PLANTATION CO LTD
LIHUE 1020	A 5575	02	LIHUE	2	21 59	159 22	207	7A				LIHUE PLTN CO LTD
LIHUE W50 1020.1 AP	R 5580	02	LIHUE	2	21 59	159 21	103	MID	MID	MID	J	NATL WEATHER SERVICE
MAKAWELI 965	A 5864	03	WAIIMEA	3	21 55	159 38	140	7A				OLOKELE SUGAR CO
MANA 1026	6082	03	WAIIMEA	3	22 02	159 46	20	8A				KEKAHA SUGAR CO LTD
MOHIHI UPR CROSS 1083	A 6433	01	WAIIMEA	3	22 07	159 36	3500	MID				U S GEO SURVEY
MOLOAA 1145	A 6529	01	KAWAIIHOU	1	22 11	159 20	330	7A				THEODORE JAVELLANA JR
MOUNT WAIKALEALE 1047	R 6565	03	WAIIMEA	2	22 04	159 30	5148	MID				U. S. GEO. SURVEY
NIU, RIDGE 1035	6850	03	WAIIMEA	3	22 02	159 44	1250	6A				KEKAHA SUGAR CO LTD
N WAILUA DITCH 1051	A 6888	02	LIHUE	2	22 04	159 28	1110	7A				LIHUE PLTN CO LTD
N WAILUA RIVER 1055	A 6893	02	LIHUE	2	22 04	159 26	650				5	LIHUE PLTN CO LTD
PH WAINIHA 1115	8155	01	HANAUEI	1	22 12	159 34	101	6A				MC 8RYDE SUG CO LTD
PRINCEVILLE RANCH 1117	8165	01	HANAUEI	1	22 13	159 29	295	9A				PRINCEVILLE RANCH INC
PUEHU RIDGE 1040	8205	03	WAIIMEA	3	22 01	159 42	1660	8A				KEKAHA SUGAR CO LTD
PUHI 1013	A 8217	02	LIHUE	2	21 58	159 24	329	8A				LIHUE PLANTATION CO
STABLE CAMP 1055.1	8694	02	LIHUE	2	22 04	159 27	740					LIHUE PLANTATION CO LTD
WAIKAWA 930	A 8941	02	KOLOA	2	21 54	159 34	215	7A				MC 8RYDE SUG CO LTD
WAIKAWA LOWER 1054	8958	02	LIHUE	2	22 01	159 27	565	6A	6A			LIHUE PLTN CO LTD
WAIKAWA UPPER 1052	8966	02	LIHUE	2	22 01	159 28	780	6A				LIHUE PLTN CO LTD
WAIKAWA 943	9253	03	WAIIMEA	3	21 59	159 43	10	8A				KEKAHA SUGAR CO LTD
WAILUA KAI 1065	A 9467	02	LIHUE	2	22 02	159 21	50	7A				LIHUE PLANTATION
WAIIMEA 947	9629	03	WAIIMEA	3	21 58	159 41	20	8A				KEKAHA SUGAR CO.
WEST LAWA 931	A 9955	02	KOLOA	2	21 54	159 31	210	6A				MC 8RYDE SUG CO LTD
ISLAND OF OAHU												
AHIIMANU LOOP 839.12	0055	01	KOOLAUPOKO	1	21 26	157 51	320					DON MITCHELL
ALOHA STADIUM-HALAWA	0172	03	OAHU	3	21 23	157 56	40	8A	8A			ALOHA STADIUM
BERETANIA PUMPING STA	0211	02	HONOLULU	2	21 19	157 51	20		9A			BOARD OF WTR SUPPLY
8 Y U LAIE 903.1	0240	01	KOOLAUPOKO	1	21 39	157 56	20	12M	12M			8 Y U-HAWAII CAMPUS
CAMPBELL IND PK 702.5	0248	02	OAHU	2	21 19	158 07	10					CHEVRON U S A INC
CAMP 84 807	A 0300	03	EWA	3	21 26	158 04	760	6A				DEL MONTE CORPORATION
COCONUT ISLAND 840.1	0350	01	KOOLAUPOKO	1	21 26	157 47	15	8A				H INST MARINE BIOLOGY
DOWSETT HIGHL 780.8	0438	02	HONOLULU	2	21 21	157 50	565					J.L. 8ANNING
EWA PLANTATION 741	0507	03	EWA	3	21 21	158 02	5	9A	7A			OAHU SUGAR COMPANY
HALAWA SHAFT 771.2	0964	02	HONOLULU	2	21 23	157 54	170					BOARD OF WATER SUPPLY
HELEMANO INTAKE 881	A 1384	05	WAIKAWA	5	21 33	158 00	1274	WI				WAIKAWA SUGAR CO. INC.
HOKULOA 725.2	A 1540	03	EWA	3	21 24	158 06	2220					H. V. VON HOLT
HONOLULU OBSERV 702.2	1918	03	EWA	3	21 19	158 00	5		9A	9A		NATIONAL WEATHER SERV
HONOLULU W50 703 AP	A 1919	02	HONOLULU	2	21 20	157 55	7	MID	MID		J	NATL WEATHER SERVICE
KAAIAKEI 724.6	2269	02	HONOLULU	2	21 18	157 43	10					MRS. MILLIE ZAPATA
KAENA POINT 841.3	2410	04	WAIKAWA	4	21 34	158 15	1240		9A			U S AIR FORCE
KAHANA 883	A 2462	01	KOOLAUPOKO	1	21 31	157 54	800	WI				WAIKAWA WTR CO LTD
KAHUKU 912	A 2570	01	KOOLAUPOKO	1	21 42	157 59	15					KIULIMA HOTEL

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								TEMP.	PRECIP.	EVAP.	SPECIAL (SEE NOTES)	
ISLAND OF OAHU												
KAILUA FIRE STA 791.3	2683	01	KOOLAUPOKO	1	21 24	157 45	10		8A			KAILUA FIRE STATION
KALAMA VALLEY 724-13	2842	02	OAHU	2	21 18	157 41	75					GRADEN HARGER
KALIHU RES SITE 777	R 2960	02	HONOLULU	2	21 23	157 50	910		M10			BOARD OF WTR SUPPLY
KANEHOE MAUKA 781	3113	01	KOOLAUPOKO	1	21 25	157 49	325	7A	7A			STATE HOSPITAL
KAPALAMA 773	A 3268	02	HONOLULU	2	21 21	157 52	614		8A			KAMEHAMEHA SCHOOLS
KAWAIHAPAI 841	A 3734	05	WAIALUA	5	21 35	158 11	40		7A			WAIALUA SUGAR CO. INC.
KEMOO CAMP 8 855	A 4318	05	WAIALUA	5	21 33	158 05	725		7A			WAIALUA SUGAR CO. INC.
KOOLAU DAM 833	A 4766	05	WAIHAWA	5	21 30	157 58	1160		8A			C & F OFFICER HEOG
LULUKU 781.7	5655	01	KOOLAUPOKO	1	21 24	157 49	240				C	NATIONAL WEATHER SERV
MAKAHA KAI 796.1	A 5766	04	WAIANAE	4	21 28	158 13	15		7A			HAROLO ROBERTS
MAKAHA PUMP 800.2	A 5782	04	OAHU	4	21 29	158 12	400		8A		C	CAPITAL INVESTMENT CO.
MAKAKILO 730.1	5789	03	OAHU	3	21 21	158 06	300		6A			NEAL ADAMS
MANOA 712.1	6122	02	HONOLULU	2	21 19	157 49	220		7A			MRS. JOHN H. BEAUMONT
MANOA LYON ARBORETUM	6128	02	OAHU	2	21 20	157 48	500	8A	8A			LYON ARBORETUM
MANOA TUNNEL 2 716	R 6130	02	HONOLULU	2	21 20	157 48	650		M10			BOARD OF WTR SUPPLY
MAUNAWILI 787.1	6222	01	KOOLAUPOKO	1	21 21	157 46	395				C	EXP. STA. H.S.P.A.
MOANALUA 770	6395	02	HONOLULU	2	21 21	157 54	20		9A			JOHN A. ROXBURGH
MOMILANI 835.1	6547	03	OAHU	3	21 25	157 58	325				C	CHESTER T. KAINUMA
MOUNT KAALA 844	6553	04	WAIANAE	4	21 31	158 09	4015				C	FEDERAL AVIATION ADM
NUUANU RES 4 783	6928	02	HONOLULU	2	21 21	157 49	1048		M10			BOARD OF WTR SUPPLY
NUUANU RESERV 5 775	A 6933	02	HONOLULU	2	21 21	157 50	410		WI			BOARD OF WTR SUPPLY
OPAEULA 870	A 7150	05	WAIALUA	5	21 34	158 02	1060	7A	7A		C	WAIALUA SUGAR CO. INC.
PAIKO OR 723.4	7540	02	HONOLULU	2	21 17	157 44	10		7A			O. L. GRUBB
PALI GOLF COURSE 788.1	7656	01	OAHU	1	21 23	157 47	480		10A			CC DEPT PK5 RECREATION
PALOLO VALLEY 718	R 7664	02	HONOLULU	2	21 20	157 46	995		M10			BOARD OF WTR SUPPLY
PAUOA FLATS 784	R 7810	02	HONOLULU	2	21 21	157 48	1640		M10			BOARD OF WTR SUPPLY
PUNALUU PUMP 905.2	8314	01	KOOLAUPOKO	1	21 35	157 54	20				C	MRS. DAVID OELAO
PUNCHBOWL CRATER 709	A 8316	02	HONOLULU	2	21 19	157 51	360		8A			NAT MEM CEMETERY
PUPUKA HEIGHTS 896.4	8342	01	WAIALUA	1	21 39	158 02	900				C	JACK N. WHEELER
PUU MANAWAHUA 725.6	8500	03	OAHU	3	21 23	158 05	2080		8A			HUGH HAMILTON
SEA LIFE PARK 724.14	8665	01	OAHU	1	21 19	157 40	40				C	SEA LIFE PARK
TANTALUS 2 780.5	8738	02	HONOLULU	2	21 20	157 50	1325		7A			R. E. WHITE
UNIV OF HAWAII 713	A 8815	02	HONOLULU	2	21 18	157 49	79		8A			DEPT OF GEOSCIENCE
UPPER WAIHAWA 874.3	8838	05	OAHU	5	21 31	158 01	1115		6A			W. B. RUTHERFORD
WAIHAWA DAM 863	A 8945	05	WAIHAWA	5	21 30	158 03	854		7A		C	WAIALUA SUGAR CO. INC.
WAIHOLE 837	A 8964	01	KOOLAUPOKO	1	21 28	157 53	745		8A		C	WAIHOLE WTR CO. LTD.
WAIALAE KAHALA 715	9185	02	HONOLULU	2	21 17	157 47	40		7A			SPENCER TINKER
WAIALEE 896.3	9190	01	KOOLAUPOKO	1	21 41	158 02	33	8A	8A			WAIALEE LIVESK RES. FARM
WAIALUA 847	A 9195	05	WAIALUA	5	21 35	158 07	32	7A	7A		C	WAIALUA SUGAR CO. INC.
WAIANAE 798.2	A 9231	04	WAIANAE	4	21 27	158 11	10		7A			BEN MAYES
WAIANAE KAWIWI 801.1	9234	04	OAHU	4	21 28	158 11	40				C	MOUNTAIN VIEW DAIRY
WAIHAWA 836	A 9261	03	EWA	3	21 28	157 56	800		MO			WAIHOLE WTR CO. LTD.
WAIKANE 885	A 9340	01	KOOLAUPOKO	1	21 30	157 53	760		WI			WAIHOLE WTR CO. LTD.
WAIKIKI 717.2	9397	02	HONOLULU	2	21 16	157 49	10	8A	8A			HONOLULU ZOO
WAILUPE VLY SCH 723.6	9500	02	HONOLULU	2	21 18	157 45	180				C	WAILUPE VALLEY SCHOOL
WAIMANALO EXP FARM	9523	01	KOOLAUPOKO	1	21 20	157 43	60	7A	7A			WAIMANALO EXP FARM
WAIMANALO NONOKI 795.2	9534	01	OAHU	1	21 20	157 43	120				C	WAIMANALO EXP FARM
WAIMER 892	A 9593	05	WAIALUA	5	21 38	158 04	330		7A		C	WAIALUA SUGAR CO. INC.
WAIPIAHU 750	A 9738	03	EWA	3	21 23	158 01	59		8A			WAIHOLE WATER COMPANY
WILHELMINA RISE 721	R 9980	02	HONOLULU	2	21 18	157 47	1100		M10			BOARD OF WTR SUPPLY
ISLAND OF MOLOKAI												
KALAUPAPA 563	A 2896	01	MOLOKAI	1	21 12	156 59	30		8A			KALAUPAPA SETTLEMENT
KAUNAKAKAI 536	3541	01	MOLOKAI	1	21 06	157 01	12		7A			MOLOKAI RANCH LTD.
KAUNAKAKAI MAUKA 536.5	3547	01	MOLOKAI	1	21 06	157 01	70				C	MOLOKAI GENERAL HOSP.
KEONELELE PENS 551	A 4394	01	MOLOKAI	1	21 12	157 12	560		VAR			MOLOKAI RANCH, LTD.
KUALAPUU 534	A 4778	01	MOLOKAI	1	21 09	157 02	825		7A		C	OEL MONTE CORPORATION
MAUNALO 511	A 6190	01	MOLOKAI	1	21 08	157 13	1070		9A			MOLOKAI RANCH COMPANY
MOLOKAI AP 524	6534	01	MOLOKAI	1	21 09	157 06	450	8A	8A			ALOHA AIRLINES
PUU O HOKU RANCH 542.1	8549	01	MOLOKAI	1	21 09	156 44	700		6A		C	PUU O HOKU RANCH
WAIKOLU 540	A 9404	01	MOLOKAI	1	21 08	156 55	3550		WI			MOLOKAI RANCH COMPANY
ISLAND OF LANAI												
KANEPUU 690	A 3130	01	LAHAINA	1	20 52	157 00	1650		WI			U. S. O. A.
KAUMALAPU HAR80R 658	3461	01	LAHAINA	1	20 47	157 00	30		8A		C	OOLE COMPANY
LANAI AIRPORT 656	5275	01	LAHAINA	1	20 48	156 57	1300	8A	8A			HAWAIIAN AIR
LANAI CITY 672	A 5286	01	LAHAINA	1	20 50	156 55	1620	7A	7A		C	OOLE COMPANY
LANAIHALE 684	A 5301	01	LAHAINA	1	20 49	156 53	3370		WI			U. S. O. A.

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								TEMP.	PRECIP.	EVAP.	SPECIAL (SEE NOTES)	
ISLAND OF LANAI												
MAHANA 694	A 5704	01	LAHAINA	1	20 52	156 55	1430		MO			U 5 0 A
MALAEUA 676	A 6012	01	LAHAINA	1	20 46	156 55	1150		WI			U 5 0 A
WAIKAEKUA 685	A 9021	01	LAHAINA	1	20 47	156 52	2000		WM			KOELE COMPANY
ISLAND OF MAUI												
AUWAHI 252	A 0175	02	HANA	2	20 37	156 20	2060		VAR			ULUPALAKUA RANCH
HAELAAU 477	0790	04	LAHAINA	4	20 57	156 36	2980				5	MAUI LANO-PINEAPPLE CO
HALEAKALA 8 E 5 434	A 0995	01	MAKAWAO	1	20 51	156 18	2100		7A			U OF H AGRIC EXP STA
HALEAKALA RANCH 432	A 0999	01	MAKAWAO	1	20 50	156 19	1850		8A			HALEAKALA RANCH CO
HALEAKALA R5 338	1004	02	MAKAWAO	2	20 46	156 15	7030	8A	8A			HALEAKALA NAT PARK
HALIIMAILE 423	A 1075	01	MAKAWAO	1	20 52	156 21	1070		3A			MAUI LANO-PINEAPPLE CO
HAMAKUAPOKO 485	1086	01	MAKAWAO	1	20 55	156 21	320		5A			HAWAIIAN COM & SUG CO
HANA 354	A 1122	01	HANA	1	20 45	155 59	120		8A		C	HARRY HASEGAWA
HANA AIRPORT 355	1125	01	HANA	1	20 48	156 01	61	8A	8A			ROYAL HAWAIIAN AIRLINES
HOLUA CABIN 259.5	A 1552	02	MAKAWAO	2	20 45	156 13	6930		MO			HALEAKALA NATL PARK RGS
HONOKOHU 480	A 1882	04	LAHAINA	4	20 58	156 36	870		MO			MAUI LANO-PINEAPPLE CO
HONOKOHU 493	A 1887	04	LAHAINA	4	21 00	156 39	135		6A			MAUI LANO-PINEAPPLE CO
HONOLUA FLO 49 494	1914	04	LAHAINA	4	21 01	156 38	125				5	MAUI LANO-PINEAPPLE CO
HONOMANU GULCH 341	A 1935	01	MAKAWAO	1	20 47	156 14	6280		MO			HALEAKALA RANCH CO
IAO NEEDLE 387.2	2208	03	WAILUKU	3	20 53	156 33	1080				C	STATE DIVISION OF PARKS
KAAHAPALI AP 453.1	2307	04	LAHAINA	4	20 56	156 42	8	8A	8A			AMFAC PROPERTIES INC
KAHOMA INTAKE 374	A 2552	04	LAHAINA	4	20 54	156 38	2000		WI			PIONEER MILL CO LTO
KAHULUI W50 398 AP	R 2572	03	WAILUKU	3	20 54	156 26	48	M10	M10		C J	NATL WEATHER SERVICE
KAILIILI 436	A 2630	01	MAKAWAO	1	20 51	156 16	2520		MO			E MAUI IRR CO LTO
KAILUA 446	2679	01	MAKAWAO	1	20 54	156 13	700	7A	7A			E MAUI IRR CO LTO
KAUAKULA INTAKE 375	A 3433	04	LAHAINA	4	20 53	156 38	1585		WI			PIONEER MILL CO LTO
KAUPO RANCH HOUSE 259	3576	02	HANA	2	20 39	156 08	1020				C	KAUPO RANCH
KEAHUA 410	3910	03	MAKAWAO	3	20 52	156 23	480		5A			HAWAIIAN COM & SUG CO
KEANAE 346	A 4091	01	HANA	1	20 50	156 10	980		MO			E MAUI IRR CO LTO
KEAWAKAPU BEACH 260.2	4193	02	MAKAWAO	2	20 42	156 27	20	8A	8A		C	ALLEN L CORELL
KIHEI 311	4489	03	WAILUKU	3	20 47	156 27	90		7A			HAWAIIAN COM & SUG CO
KIPAHULU 258	4634	01	HANA	1	20 39	156 04	260		7A			HANA RANCH-KIPAHULU SEC
KUKUI 380	4887	04	LAHAINA	4	20 54	156 35	5788				5	MAUI LANO-PINEAPPLE CO
KULA SANATORIUM 267	5006	02	MAKAWAO	2	20 42	156 22	3004	7A	7A			KULA SANATORIUM
LAHAINA 361	5177	04	LAHAINA	4	20 53	156 41	45	7A	7A		C	PIONEER MILL CO LTO
LAUNIUPOKO INTAKE 376	A 5404	04	LAHAINA	4	20 51	156 37	1280		WI			PIONEER MILL CO LTO
LAUNIUPOKO VILLAGE 372A	5408	04	LAHAINA	4	20 51	156 39	220		7A			PIONEER MILL CO LTO
LUPI UPPER 442	A 5665	01	MAKAWAO	1	20 53	156 15	1240		MO			E MAUI IRR CO LTO
MAHINAHINA 466	A 5715	04	LAHAINA	4	20 57	156 40	715		7A			PIONEER MILL CO LTO
MOKUPEA 475	6521	04	LAHAINA	4	20 59	156 37	1290				5	MAUI LANO-PINEAPPLE CO
NAKALELE FIELO 60 497	A 6645	04	LAHAINA	4	21 02	156 36	340		VAR			MAUI LANO-PINEAPPLE CO
OLINDA 332	A 7040	01	MAKAWAO	1	20 48	156 17	4127		VAR			EAST MAUI IRRIGATION CO
OWALU 296.1	7059	04	LAHAINA	4	20 49	156 37	20		7A			PIONEER MILL CO LTO
PAKKA 350	7194	01	HANA	1	20 49	156 07	1260		VAR		C	E MAUI IRR CO LTO
PAIA 406	7566	01	WAILUKU	1	20 55	156 23	170		6A			HAWAIIAN COM & SUG CO
PANILEIHULU 259.2	A 7674	02	HANA	2	20 41	156 08	3570		MO			KAUPO RANCH CO.
PEAHI 488.6	7952	01	MAUI	1	20 54	156 17	830		WI		C	BERNARD RUPLINGER
POHAKA BRIDGE 307.2	A 8060	03	WAILUKU	3	20 49	156 31	167		6A			WAILUKU SUGAR CO
POLIPOLI SPRINGS 267.2A	8070	02	MAKAWAO	2	20 41	156 20	6150		VAR			STATE DIV OF FORESTRY
PUOHOKAMOA 2 343	A 8336	01	HANA	1	20 50	156 13	2980		MO			E MAUI IRR CO LTO
PUUNENE 396	8543	03	WAILUKU	3	20 53	156 27	60		7A			HAWAIIAN COM & SUG CO
PUU PAKI 352	A 8553	01	HANA	1	20 46	156 03	2160				5	EAST MAUI IRRIGATION CO
SPRECKELSVILLE 400.2	8688	03	WAILUKU	3	20 54	156 25	85		8A			HAWAIIAN COM & SUG CO
TWIN GATES 261.3	A 8742	03	MAKAWAO	3	20 46	155 23	1310		VAR			KAOHOLU RANCH
UH AGRI RES CNTR 324.5	8743	02	MAUI	2	20 46	156 20	3050				C	UH MAUI AGRI RESCH CNTR
UKULELE 333	A 8744	01	MAKAWAO	1	20 48	156 15	5230		MO			HALEAKALA RANCH CO
UKUMEHAME 301	A 8750	04	LAHAINA	4	20 48	156 35	75		7A			PIONEER MILL CO LTO
ULUPALAKUA RANCH 250	8760	02	MAKAWAO	2	20 39	156 24	1900		8A		C	ULUPALAKUA RCH CO LTO
WAHIKULI 364	A 8955	04	LAHAINA	4	20 54	156 40	580		8A			PIONEER MILL CO LTO
WAIHEU CAMP 484	A 9275	03	WAILUKU	3	20 55	156 31	320		6A			WAILUKU SUGAR CO
WAIHEE VALLEY 482	A 9315	04	WAILUKU	4	20 57	156 32	300		6A			WAILUKU SUGAR CO
WAIKAMOI 449	A 9332	01	HANA	1	20 52	156 12	1200		MO			E MAUI IRR CO LTO
WAIKAMOI DAM 336	A 9335	01	MAKAWAO	1	20 49	156 14	4320		VAR		C	EAST MAUI IRRIGATION CO
WAIKAPU 390	A 9376	03	WAILUKU	3	20 51	156 31	370		6A			WAILUKU SUGAR CO
WAILUA IKI 348	A 9460	01	HANA	1	20 48	156 09	2630				5	EAST MAUI IRRIGATION CO
WAILUKU 386	A 9484	03	WAILUKU	3	20 54	156 30	180	7A	7A			WAILUKU SUGAR COMPANY
WAIOPAI RANCH 256	A 9765	02	HANA	2	20 38	156 12	220		OC			HALEAKALA RANCH CO

SEE REFERENCE NOTES FOLLOWING STATION INDEX

## STATION INDEX

HAWAII AND PACIFIC  
JUNE 1977

STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES				OBSERVER
								TEMP.	PRECIP.	EVAP.	SPECIAL (SEE NOTES)	
ISLAND OF MAUI												
ISLAND OF HAWAII												
AHUA UMI 75	A 0040	05	N KONA	5	19 38	155 47	5220		MO			W.H. GREENWELL RANCH
CITY OF REFUGE 27.4	0344	04	S KONA	4	19 25	155 55	15		9A			NAT HISTORICAL PARK
HAUNA 214	0840	01	HAMAKUA	1	20 06	155 28	461		8A			HONOKAA SUGAR CO
HAKALAU 142	0905	02	S HILO	2	19 54	155 08	105		7A			MAUNA KEA SUGAR CO
HALEMAUMAU 52	A 1033	03	KAU	3	19 24	155 17	3648		MO			HAWAII NAT PARK
HALEPOHAKU 111	A 1065	02	HAMAKUA	2	19 46	155 28	9220		3P			MAUNA KEA OBSERVATORY
HAWAII VOLCNS NP HO 54	1303	02	KAU	2	19 26	155 16	3971	8A	8A		C	HA VOLCANOES NAT PK HOS
HAWI 168	A 1339	01	N KOHALA	1	20 14	155 50	580		6A		C	K L 80NO
HILO COUNTRY CLUB 86.6	1487	02	HAWAII	2	19 41	155 10	1600		7A		C	REX WILLS 11
HILO W50 87 AP	R 1492	02	S HILO	2	19 43	155 04	27	M10	M10		C	J NATL WEATHER SERVICE
HOLUALOA 70	A 1557	04	N KONA	4	19 38	155 55	3220		MO			STATE DIV OF FORESTRY
HOLUALOA BEACH 68	A 1562	04	N KONA	4	19 37	155 59	14		7A			CAPT COOK CATTLE CO
HONAUAAU 27	1665	04	S KONA	4	19 27	155 53	1089		7A			SHIGETO L TANAKA
HONOHINA 137	1701	02	N HILO	2	19 56	155 09	300		7A			MAUNA KEA SUGAR CO
HONOMA MAUKA 138	1960	02	S HILO	2	19 51	155 09	1100		7A		C	MAUNA KEA SUGAR CO
HONUAULA 71	A 2047	04	N KONA	4	19 40	155 53	6250		MO			STATE DIV OF FORESTRY
HUALALAI 72	A 2151	04	N KONA	4	19 42	155 52	8190		MO			STATE DIV OF FORESTRY
HUEHUE 92.1	A 2156	04	N KONA	4	19 45	155 59	1960		6A			HUEHUE RANCH
KAAALA IKI 12	A 2249	03	KAU	3	19 08	155 34	1340		WI			KAU SUGAR COMPANY, INC
KAAWALOA 29	A 2327	04	SOUTH KONA	4	19 30	155 55	1340		8A			CAPT COOK INVESTMENT CO
KAHIWAI MAUKA 3.8	2512	03	KAU	3	19 08	155 46	4120				C	RUSSELL P. SMITH
KAHUA RANCH HOTRS	2600	01	HAWAII	1	20 08	155 48	3240				C	KAHUA RANCH COMPANY
KAINALIU 73.2	2751	04	N KONA	4	19 32	155 56	1500	7A	7A			KONA EXPERIMENT STA
KALAOA 69.22	2887	04	HAWAII	4	19 44	155 59	2000		8A			FLOYD W MC COY
KALAPANA 1 67.8	2894	02	S HILO	2	19 20	155 02	10		VAR			HAWAII VOLCANOES NAT PK
KAMAOKA 2 5	A 3048	03	KAU	3	19 02	155 40	1375		WI			PARKER RCH-KAPAPALA DIV
KAMUELA 192.2	3077	01	S KOHALA	1	20 01	155 40	2670	6A	6A			PARKER RANCH
KAPAPALA RANCH 36	A 3300	03	KAU	3	19 17	155 27	2140		6A			PARKER RCH-KAPAPALA DIV
KAPOHO BEACH 93.11	3368	02	HAWAII	1	19 30	154 49	10	8A	8A			H E MC NICHOLS
KAPOHO LANING 93.5	A 3369	02	PUNA	2	19 30	154 52	290		VAR			DEPT OF PUBLIC WORKS
KAWAINUI LOWER 193	A 3770	01	HAMAKUA	1	20 05	155 39	1080		WI			HONOKAA SUGAR CO
KEAAU 92	3872	02	PUNA	2	19 38	155 02	285	8A	8A			PUNA SUGAR CO
KEAIIWA CAMP 22.1	3925	03	KAU	3	19 14	155 29	1700				C	KAU SUGAR COMPANY, INC
KEALAKEUA 2 28.7	3980	04	S KONA	4	19 30	155 55	1450	8A	8A			MRS LILAH MEIER
KEANAKOLU CAMP 124.2	4098	02	HAMAKUA	2	19 55	155 21	5280				C	STATE DIV OF FORESTRY
KIOLAKAA A & F 6	A 4625	03	KAU	3	19 04	155 38	1925		MO			STATE DIV OF FORESTRY
KIPA 89.2	A 4632	02	S HILO	2	19 44	155 09	1490		WI			MAUNA KEA SUGAR CO.
KOHALA MISSION 175.1	4680	01	N KOHALA	1	20 14	155 48	537	7A	7A			K. LYMAN 80NO
KOIAWE LOWER 196	A 4685	01	HAMAKUA	1	20 05	155 38	720		WI			HONOKAA SUGAR CO
KONA (KAILUA) 68.3	A 4764	04	N KONA	4	19 39	156 00	30	8A	8A		C	STANORRO OIL CO OF CAL
KONA VILLAGE 93.8	4765	04	N KONA	4	19 50	155 59	20		8A			KONA VILLAGE RESORT HTL
KUKAIIAU 222	4815	01	HAMAKUA	1	20 02	155 21	840		6A			LAUPAHOEHOE SUGAR CO
KUKUIHAELE HIC 199	4928	01	HAMAKUA	1	20 07	155 35	980		6A			HONOKAA SUGAR CO
KUKUIHAELE MILL 206	4938	01	HAMAKUA	1	20 08	155 34	300		6A			HONOKAA SUGAR CO
KULANI CAMP 79	5011	02	S HILO	2	19 33	155 18	5170	8A	8A			ST DEPT OF SOCIAL SER
KULANI MAUKA 76	A 5018	05	N HILO	5	19 35	155 27	8300		VAR			MAUNA LOA OBS.
KULANI SCHOOL SITE 78	A 5021	02	S HILO	2	19 35	155 20	5735		WI			ST DEPT OF SOCIAL SER
LALAMLO FLO OFF 191.1	5260	01	S KOHALA	1	20 01	155 41	2615				C	STATE DEPT OF L&N RES
LANIHAW 68.2	5330	04	N KONA	4	19 40	155 58	1530		7A			KONA EXPERIMENT STATION
LAVA TREE PARK 66.1	5460	02	PUNA	2	19 29	154 54	650				C	STATE DIV OF PARKS
MAKAHALAU 103	5761	02	HAWAII	1	19 59	155 33	3820		6A			PARKER RANCH
MANUKA 2	A 6134	03	KAU	3	19 07	155 50	1760		WI			STATE DIVISION OF PARKS
MAUNA KEA 085 III.2	6183	02	HAWAII	2	19 49	155 28	3770		7P			MAUNA KEA OBSERVATORY
MAUNA LOA SLOPE 085	6198	05	HAMAKUA	5	19 32	155 35	1150	M10	M10			MAUNA LOA OBSERVATORY
MIDDLE HOLUALOA 68.1	A 6268	04	N KONA	4	19 37	155 58	500		7A			CAPT COOK CATTLE CO
MIDDLE PEN 147.1	A 6270	01	N KOHALA	1	20 06	155 50	1380		VAR			KAHUA RANCH
MOAULA 18	A 6407	03	KAU	3	19 11	155 30	600					PARKER RCH-KAPAPALA DIV
MOUNTAIN VIEW 91	6552	02	PUNA	2	19 33	155 07	1530	6A	6A			PUNA SUGAR CO
NAALEHU 14	A 6588	03	KAU	3	19 04	155 35	800	8A	8A			KAU SUGAR COMPANY
NAPOOPOO 28	A 6697	04	S KONA	4	19 28	155 55	395		7A			KONA EXPERIMENT STA
OOKALA 223	7131	02	N HILO	2	20 01	155 17	430	7A	7A			LAUPAHOEHOE SUGAR CO
OPIHIHALE 2 24.1	7166	04	S KONA	4	19 16	155 53	1270	7A	7A			MRS LORMA TRUMAN
ORCHID LAND EST 91.5	A 7185	02	PUNA	2	19 34	155 00	445		VAR			BOARD OF WATER SUPPLY
PARAHU 217	7204	01	HAMAKUA	1	20 05	155 26	415		8A		C	HONOKAA SUGAR COMPANY
PARUULO 221	7312	01	HAMAKUA	1	20 03	155 22	800		7A			LAUPAHOEHOE SUGAR CO

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HAWAII AND PACIFIC  
JUNE 1977

STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES				OBSERVER
								TEMP.	PRECIP.	EVAP.	SPECIAL (SEE NOTES)	
ISLAND OF HAWAII												
PAHALA 21	A 7421	03	KAU	3	19 12	155 29	870	8A	6A			KAU SUGAR COMPANY, INC
PAHOA 65	7457	02	PUNA	2	19 30	154 57	670		6A			PUAN SUGAR COMPANY
PAKAO 37	A 7643	03	KAU	3	19 22	155 28	5000		MO			PARKER RCH-KAPAPALA DIV
PAPAIKOU 144.1	7711	02	S HILO	2	19 47	155 06	260		7A			MAUNA KEA SUGAR CO
PAPAIKOU MAUKA 140.1	7721	02	S HILO	2	19 47	155 08	1270		7A			MAUNA KEA SUGAR CO
PIIHONUA 89	A 8051	02	S HILO	2	19 44	155 10	1730		MO			STATE DIV OF FORESTRY
POHAKULOA 107	A 8063	02	HAMAKUA	2	19 45	155 32	6511		WI		C	STATE DIVISION OF PARKS
PUUKOHOLA HEIAU 98.1	8422	05	HAWAII	5	20 02	155 50	140	8A	8A			SUPT PUU HEIAU-NHS
PUU LEHUA 73	A 8460	04	N KONA	4	19 34	155 49	4880		MO			W.H. GREENWELL RANCH
PUU WAAWAA 94.1	A 8555	05	N KONA	5	19 47	155 51	2520		7A		C	PUU WAAWAA RANCH CO
SAOOLE ROAD 1 84	A 8590	02	S HILO	2	19 42	155 12	2340		WM			BOARD OF WTR SUPPLY
SOUTH KONA 2.31	8650	03	HAWAII	3	19 06	155 45	2650	8A	8A			MRS CAROLYN CARLSON
SOUTH POINT CORRAL 3	A 8675	03	KAU	3	18 57	155 41	500		WI			PARKER RCH-KAPAPALA DIV
UPOLU POINT USCG 159.2	8830	01	N KOHALA	1	20 15	155 53	61	8A	8A			U S COAST GUARD
WAIKOA 50 88.2	9025	02	S HILO	2	19 40	155 08	1050		7A			SHINICHI KANESHIRO
WAIKALO-8015 CAS 95.8	9142	04	HAWAII	5	19 56	155 48	900		8A			8015 CASCADES WA CONST

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## STATION INDEX

HAWAII AND PACIFIC  
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STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES				OBSERVER
								TEMP.	PRECIP.	EVAP.	SPECIAL (SEE NOTES)	
PACIFIC												
EAST OF 180TH MERIDIAN												
CANTON ISLAND	4101	02	PHOENIX IS		2 46N	171 43W	8	9A	9A			ITT/FEDERAL ELEC CORP
FAGA ALU RESERVOIR	4135	03	AMER SAMOA		14 18S	170 42W	820		BA			PUBLIC WORKS
FALEASAO VILLAGE	4248	03	TA'U'MAN		14 14S	169 31W	16		BA			SOLOMULI MALU'IA
JOHNSTON WSO AP	R 4320	01	LINE ISLANDS		16 44N	169 31W	7	M10	M10	7A	J	NATL WEATHER SERVICE
LEONE	4397	03	TUTUILA		14 21S	170 47W	20	6P	6P			ST THERESA SCHOOL
FRENCH FRIGATE SHOALS	4401	07			23 52N	166 17W	6	8P	BA			U S COAST GUARD
MIDWAY SAND ISLAND	4490	07			28 13N	177 21W	10	M10	M10			U S NAVY
PAGO PAGO WSO AP	R 4690	03	AMER SAMOA		14 20S	170 43W	12	M10	M10		J	NATL WEATHER SERVICE
WESTERN PACIFIC ISL. NORTH OF 12 N												
ANDERSEN AFB GUAM	\$4 4025	03	MARIANNA IS		13 35N	144 55E	624	M10	M10			AIR WEATHER SERVICE
CLARK AFB LUZON	\$4 4100	06	PHILIPPINE I		15 11N	120 33E	475	M10	M10			U S AIR FORCE
GUAM NAS	4226	03	MARIANNA IS		13 29N	144 48E	254	M10	M10			U S NAVY
GUAM WSO	R 4229	03	MARIANNA IS		13 33N	144 50E	361	10A	10A	10A	J	NATL WEATHER SERVICE
MANGILAO	4468	03	GUAM		13 27N	144 49E	60		7A			GUAM AGRICULTURAL STA
ROTA	4800	03	MARIANNA IS		14 08N	145 09E	47		8A			DIST ADMINISTRATOR
SAIPAN LORAN	4860	03	MARIANNA IS		15 08N	145 42E	9	10A	10A			U S C G LORAN STATION
WAKE WSO AP	R 4901	01			19 17N	166 39E	11	M10	M10		J	NATL WEATHER SERVICE
CAROLINE AND MARSHALL ISLANDS												
ANGUAR	4030	02	CAROLINE IS		6 55N	134 09E	15		BA			USCG LORAN STATION
ENIWETAK	4165	01	MARSHALL IS.		11 21N	162 21E	10	M10	M10			U S COAST GUARD
FALALOP I. ULITHI	4185	02	CAROLINE IS		10 02N	139 48E	6	10P	10P			PRINCIPAL-ULITHI H-SCH
KAPINGAMARANGI ATOLL	4325	01	PONAPE		1 05N	154 48E	10	M10	M10			ERSIN HAQUET
KOROR WSO	R 4351	02	CAROLINE IS		7 20N	134 29E	94	M10	M10		J	NATL WEATHER SERVICE
KWAJALEIN MISSILE RGN	R 4375	01	MARSHALL IS		8 44N	167 44E	7	12M	12M		J	KMR WEATHER SERVICE
LELE I. KUSAIE	4395	02	CAROLINE IS		5 20N	163 02E	7	M10	M10			JULIAN E ROBERT
MAJURO WSO AP	R 4460	02	MARSHALL IS		7 05N	171 23E	10	M10	M10		J	NATL WEATHER SERVICE
METALANIM	4482	02	PONAPE		6 51N	158 19E	30	BA	BA			REV E. A. SOUCIE
MOKIL ATOLL	4490	02	PONAPE DIST.		6 41N	159 47E	27		SP			ESHAM BEN
NGASANG, BABELTHUAP	4580	01	PALAU ISLAND		7 38N	134 39E	10		8A			BETHANIA SEMINARY
PONAPE WSO	R 4751	02	CAROLINE IS		6 58N	158 13E	123	M10	M10		J	NATL WEATHER SERVICE
SATAWAN ATOLL	4814	02	CAROLINE IS		5 20N	153 44E	9	M10	M10			ANTER EKO
TRUK, MOEN I. WSO AP	R 4851	02	CAROLINE IS		7 28N	151 51E	5	M10	M10		J	NATL WEATHER SERVICE
WOLEAI ATOLL	4911	01	CAROLINE IS		7 23N	143 55E	7	M10	M10			HASUGULIMAR/HALEYEMAI
YAP WSO AP	R 4951	02	CAROLINE IS		9 29N	138 05E	44	M10	M10		J	NATL WEATHER SERVICE

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# LATE REPORTS MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

Continued

HAWAII AND PACIFIC

Station		Temperature										Precipitation																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
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See Reference Notes Following Station Index

## HAWAII AND PACIFIC

A-2

# LATE REPORTS DAILY TEMPERATURES

HAWAII AND PACIFIC

Station		Day of Month																															Average
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
HAWAII	MAX																																
	MIN																																
* * *	MAX																																
	MIN																																
OCTOBER 1976	MAX																																
	MIN																																
LANAI CITY 672	MAX	79			81	79	80	80	74			77	77	74	76	74				77	78	77	80	78			77	78	76	75	78		
	MIN	65			66	65	64	66	65			67	67	67	67	64				63	65	65	65	67			63	66	66	64	62		
* * *	MAX																																
	MIN																																
JANUARY 1977	MAX																																
	MIN																																
KOOLA LN (MAK) 940.1	MAX	81		81	84	84	87	86	82	85	84	84	77	85	84		84	83	86	84	83	83	79	81	84	80	84	84	77	78	83	83	
	MIN	71		69	64	64	67	67	66	66	72	69	67	67	67		67	67	67	67	68	65	65	64	72	68	71	71	62	64	71	71	
PACIFIC	MAX																																
	MIN																																
* * *	MAX																																
	MIN																																
AUGUST 1976	MAX																																
	MIN																																
MIDWAY SAND ISLAND	MAX	82	82	81	85	84	84	85	85	84	85	85	81	85	85	87	85	85	81	85	84	84	85	85	84	84	85	85	87	85	85	85	85
	MIN	74	72	74	76	73	74	75	76	75	77	75	74	76	75	74	74	73	71	76	69	70	76	72	71	71	72	71	76	72	73	76	73
* * *	MAX																																
	MIN																																
OCTOBER 1976	MAX																																
	MIN																																
MIDWAY SAND ISLAND	MAX	88	88	88	87	81	87	80	81	81	82	82	81	80	79	77	77	77	77	78	74	76	78	80	81	80	78	80	80	80	79	78	
	MIN	74	77	78	79	72	67	74	71	73	73	71	73	72	72	71	70	66	70	70	69	71	70	70	69	69	73	72	74	72	72	70	
* * *	MAX																																
	MIN																																
NOVEMBER 1976	MAX																																
	MIN																																
SWAINS ISLAND	MAX	84	90	89	88	88	87	87	89	87	85	90	91	90	91	90	90	91	91	92	84	77	85	85	93	88	89	91	78	92	88		
	MIN	68	71	70	70	71	71	70	71	71	69	71	72	72	72	72	71	72	74	73	68	62	69	68	72	70	71	72	63	72	70		
* * *	MAX																																
	MIN																			</													

See Reference Notes Following Station Index

# CORRECTIONS

HAWAII & PACIFIC

## HAWAII

DATE	TABLE	DIVISION	STATION	CORRECTION
MARCH 1976	DAILY TEMPERATURES	ISLAND OF HAWAII	UPOLU POINT USCG 159.2	MINIMUM ON 28th, 65. AVERAGE MINIMUM, 65.6.
AUGUST 1976	DAILY PRECIPITATION	ISLAND OF HAWAII	PAKAO 37	TOTAL *. AMOUNT 1st-31st, *.
SEPTEMBER 1976	DAILY PRECIPITATION	ISLAND OF HAWAII	PAKAO 37	TOTAL *. AMOUNT 1st-30th, *.
OCTOBER 1976	DAILY PRECIPITATION	ISLAND OF HAWAII	PAKAO 37	TOTAL *. AMOUNT 1st-31st, *.
NOVEMBER 1976	DAILY PRECIPITATION	ISLAND OF HAWAII	PAKAO 37	TOTAL *. AMOUNT 1st-30th, *.
DECEMBER 1976	TEMPERATURE AND PRECIPITATION EXTREMES			GREATEST TOTAL PRECIPITATION: PAHOA 65, HAWAII, 13.40.
FEBRUARY 1977	DAILY PRECIPITATION	ISLAND OF KAUAI	KOLOA MAUKA 994	AMOUNT ON 25th-28th, *.
DECEMBER 1976	STORAGE		N WAILUA RIVER 1055	MAY 31, 7.60. TOTAL, 69.60
MARCH 1977	MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA	ISLAND OF OAHU	WAIALEE 896.3	TOTAL PRECIPITATION *.
APRIL 1977	DAILY PRECIPITATION	ISLAND OF KAUAI	KOLOA LN (MAK) 940.1	TOTAL 1.47. AMOUNT ON 30th, .00.
APRIL 1977	MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA	ISLAND OF KAUAI	PH WAINIHA 1115	TOTAL PRECIPITATION *; DEPARTURE FROM NORMAL MISSING.
APRIL 1977	DAILY PRECIPITATION	ISLAND OF OAHU	WAIALEE 896.3	TOTAL V9.24.
APRIL 1977	MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA	ISLAND OF MAUI	KAILUA 446	TOTAL PRECIPITATION *; DEPARTURE FROM NORMAL MISSING.

## PACIFIC

JULY 1976	MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA	CAROLINE AND MARSHALL ISLANDS	NGASANG, BABELTHUAP	TOTAL PRECIPITATION, V16.85.
JULY 1976	DAILY PRECIPITATION	CAROLINE AND MARSHALL ISLANDS	NGASANG, BABELTHUAP	TOTAL, V16.85.

Additional information regarding the climates of Hawaii and the Pacific Ocean Area may be obtained by writing to the National Climatic Center, Federal Building, Asheville, N.C. 28801, or to any National Weather Service Office near you. Additional precipitation data for Hawaii are contained in "HOURLY PRECIPITATION DATA HAWAII."

**DIMENSIONAL UNITS:** Unless otherwise indicated, dimensional units used in this bulletin are: Temperature in °F., precipitation and evaporation in inches, and wind movement in miles. In "Supplemental Data" table directions entered in figures are tens of degrees. Resultant wind is the vector sum of wind directions and speeds divided by the number of observations.

**OBSERVATION TIME:** Data in the "Monthly Extremes," "Daily Precipitation" table, "Daily Temperature" table, and "Evaporation and Wind" table are for the 24 hours ending at time of observation unless indicated otherwise by reference letters in the Station Index. The Station Index shows observation time in local standard time.

**EVAPORATION** is measured in the standard Weather Service-type pan of 4-foot diameter unless otherwise noted below in the Evaporation and Wind table. Max and Min values in the Evaporation and Wind table are extremes of temperature of water in pan as recorded during 24 hours ending at time of observation. Wind is the total wind movement in miles over the evaporation pan as determined by a continuous anemometer recorder located 6-8 inches above the pan.

**NORMALS** for all stations are climatological standard normals based on the period 1941-1970.

**STATION NAMES:** Hawaii state key numbers are included following station names in the several tables.

**LATE REPORTS AND CORRECTIONS** will be carried only in the June and December issues of this bulletin.

**INTERPOLATED VALUES** for monthly precipitation totals may be found in the annual issue of this publication.

**IN THE DATA TABLES THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING:**

- No record in the "Supplemental Data" table, "Daily Precipitation" table, "Evaporation and Wind" table, and the Station Index.
- No record in the "Monthly Summarized Data" table and the "Daily Temperature" table is indicated by no entry.
- † And also on an earlier date or dates.
- Highest observed one minute windspeed. This station is not equipped with an instrument to measure fastest mile data.
- \* Amount included in following measurement, time distribution unknown.
- × Maximum and minimum temperatures are the highest and lowest hourly readings for each day.
- ‡ Extreme occurred at station with incomplete data which may have been exceeded.
- A The letter "A" shown following station name in "Monthly Summarized Data" table, "Daily Precipitation" table, and "Station Index," indicates amount carried in the "Total" column is for the period from last measurement of a preceding month through the last measurement of the current month. See "Daily Precipitation" table of this and previous bulletins for dates of measurement. Where gages are read only once monthly, measurements made on the first of a month are credited to the last day of the preceding month.
- B Adjusted to a full month.
- M One or more days of record missing; if average value is entered, less than 10 days record is missing. See "Daily Temperature" table for detailed daily record.
- R Amounts from recording gage.
- T Trace, an amount too small to measure.
- V Includes total for previous month.

**IN THE STATION INDEX THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING:**

- AR Observation made after rain.
- C In Special Column of Station Index indicates Recording Rain Gage Station. Hourly Precipitation values are processed for special purposes, and are published later in the "Hourly Precipitation Data" bulletin. If daily amounts are published in "Monthly Summarized Data" bulletin they are from a separate non-recording gage, except where indicated by reference 'R'. Such amounts may differ from amounts published from the recording gage in the "Hourly Precipitation Data" bulletin.
- J "Supplemental Data" table.
- MO Gage read once monthly; usually on the last day.
- OC Gage readings at periods varying from a few weeks to several months.
- S Storage Precipitation Station. Precipitation measurements, made at irregular intervals, are published in the December issue, or as late reports in the June issue of this publication.
- SS Observation time is near sunset.
- VAR Observation time is variable.
- WI Gage read weekly or irregularly only.
- WM Gage read weekly and last day of month.
- # Thermometers are generally exposed in a shelter located a few feet above sod-covered ground; however, this reference indicates that the thermometers are exposed in a shelter located on the roof of a building.
- ‡ DRAINAGE CODE: KAUAI: 1-NORTHERN 2-SOUTHEASTERN 3-SOUTHWESTERN OAHU: 1-WINDWARD KOOLAU 2-HONOLULU 3-SOUTH CENTRAL 4-WESTERN 5-NORTH CENTRAL MOLOKAI: 1-(NO INTRA-ISLAND DIVISIONS) LANAI: 1-(NO INTRA-ISLAND DIVISIONS) MAUI: 1-NORTHEASTERN 2-SOUTHERN 3-CENTRAL 4-WESTERN HAWAII: 1-NORTHERN 2-EASTERN 3-SOUTHERN 4-WESTERN 5-CENTRAL

Stations appearing in the tables with no data were either missing or received too late to be included in this issue.

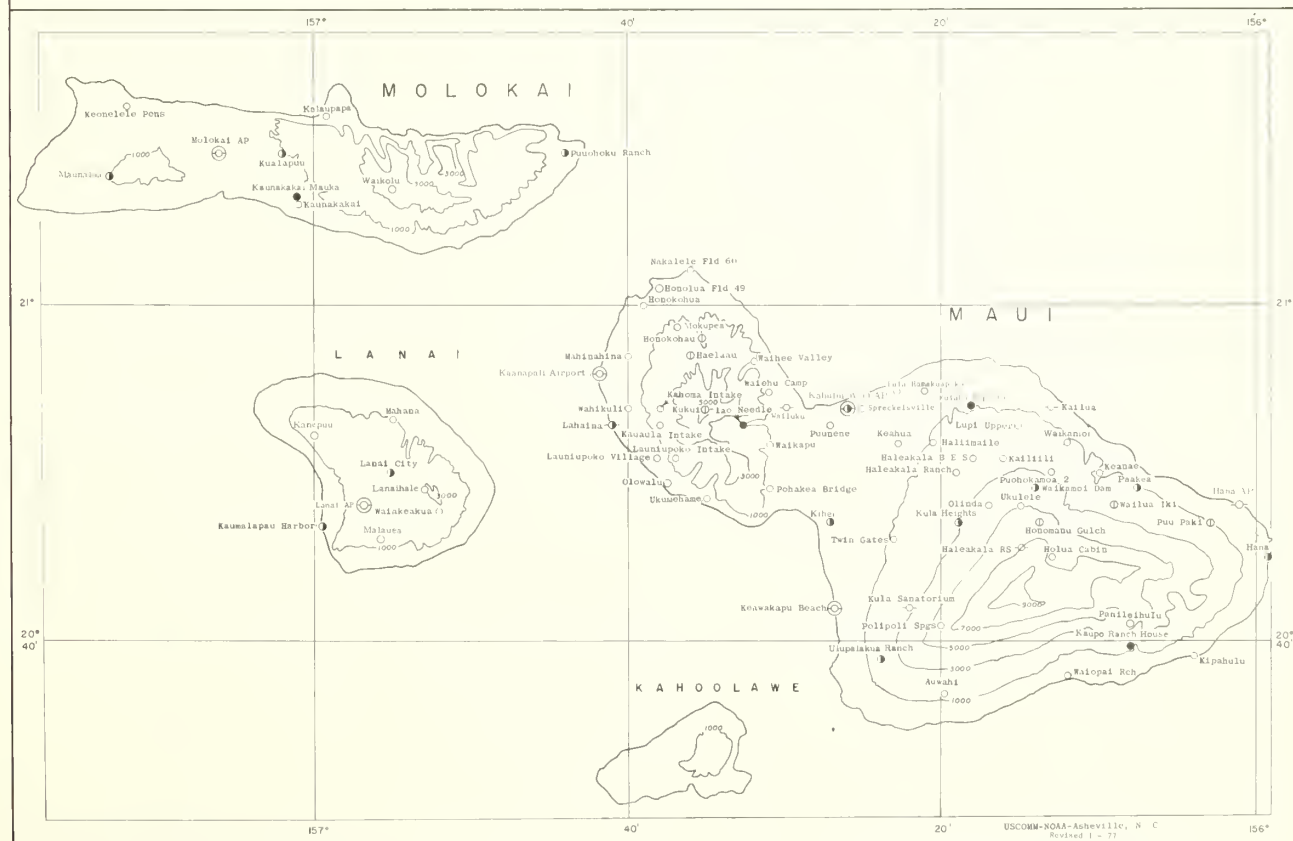
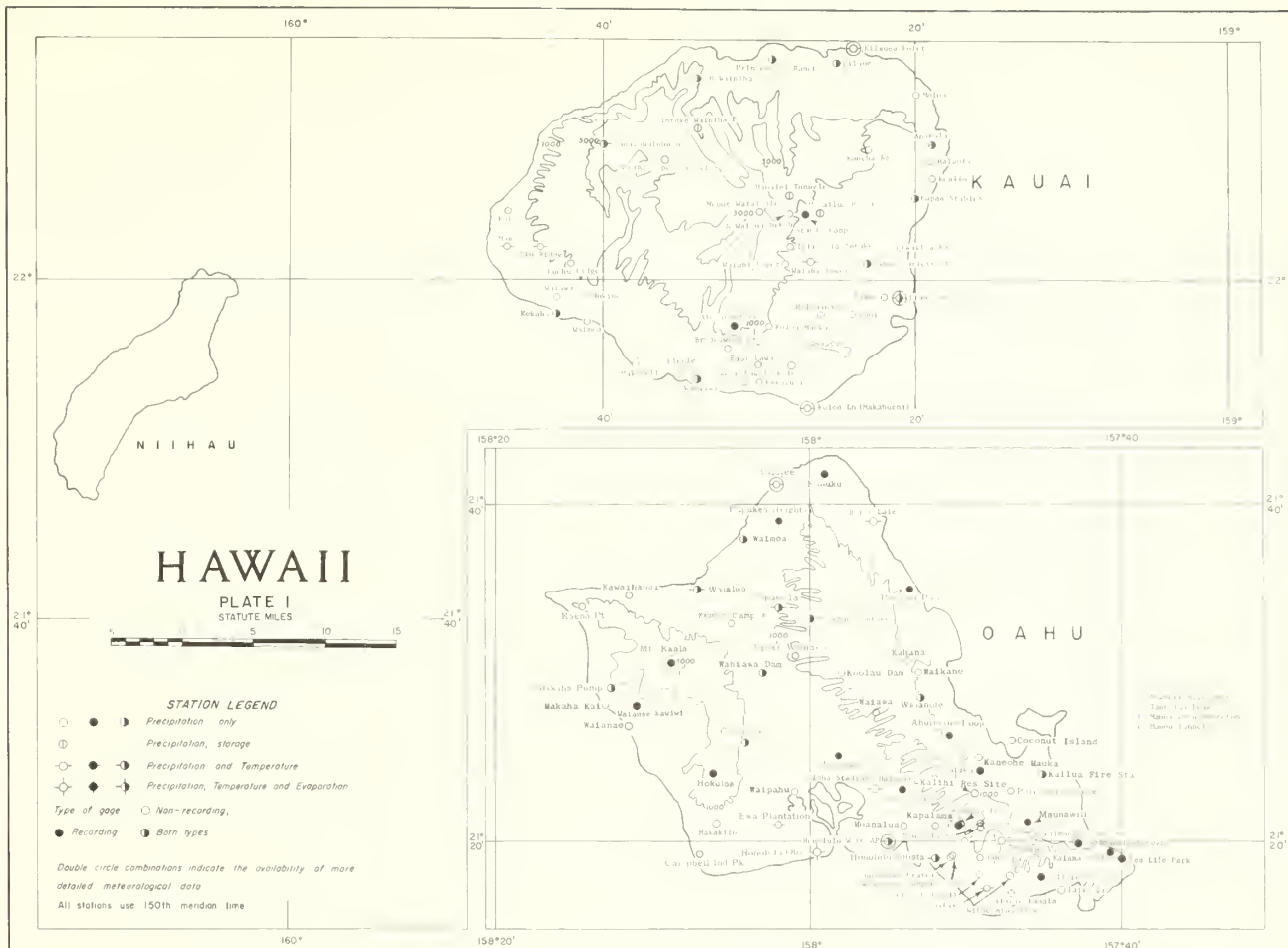
The Pacific includes stations in the Trust Territory of the Pacific Islands, Territory of Guam, American Samoa, and other scattered islands and atolls.

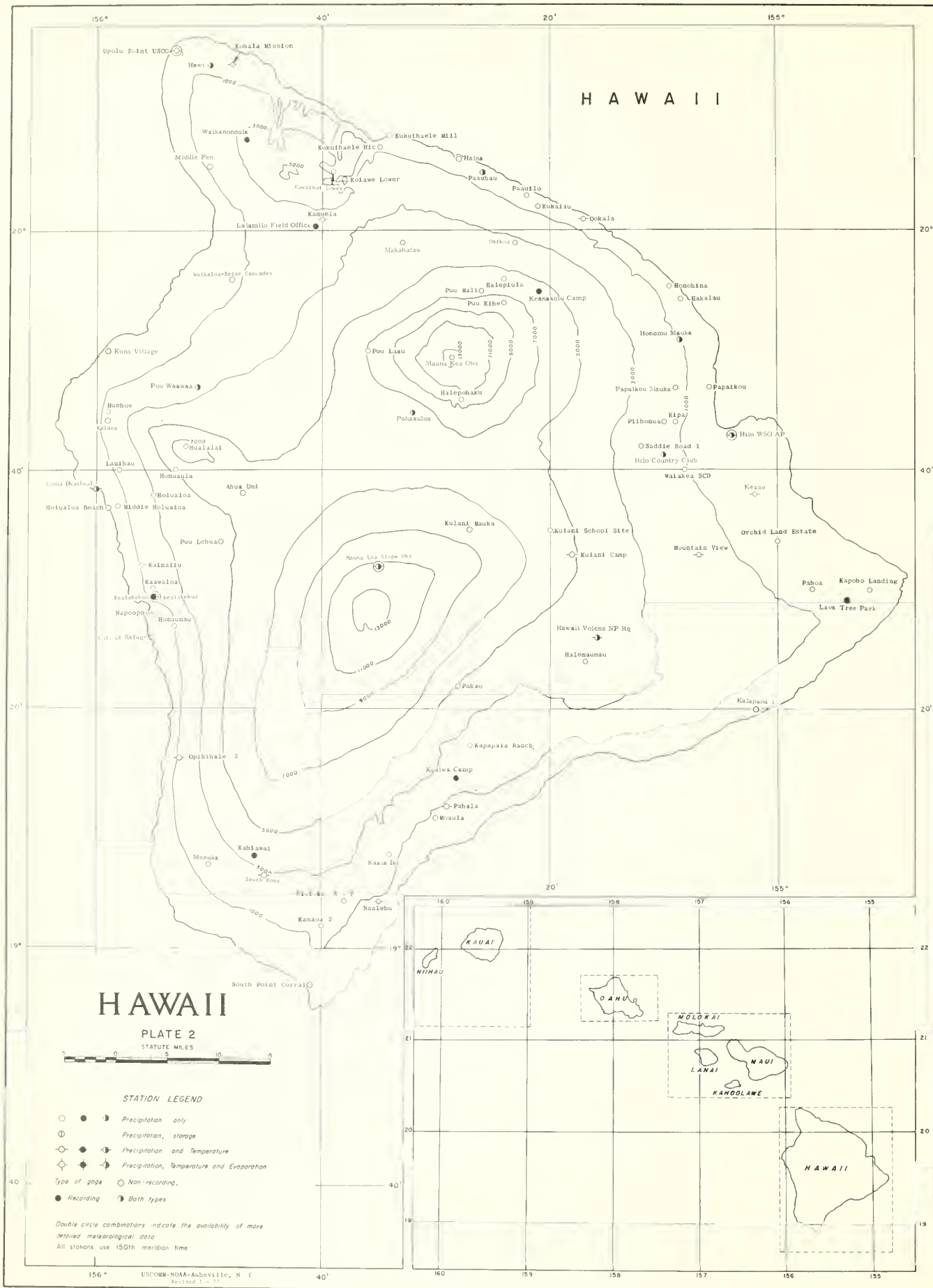
General weather conditions in the U.S. for each month are described in the CLIMATOLOGICAL DATA NATIONAL SUMMARY and STORM DATA.

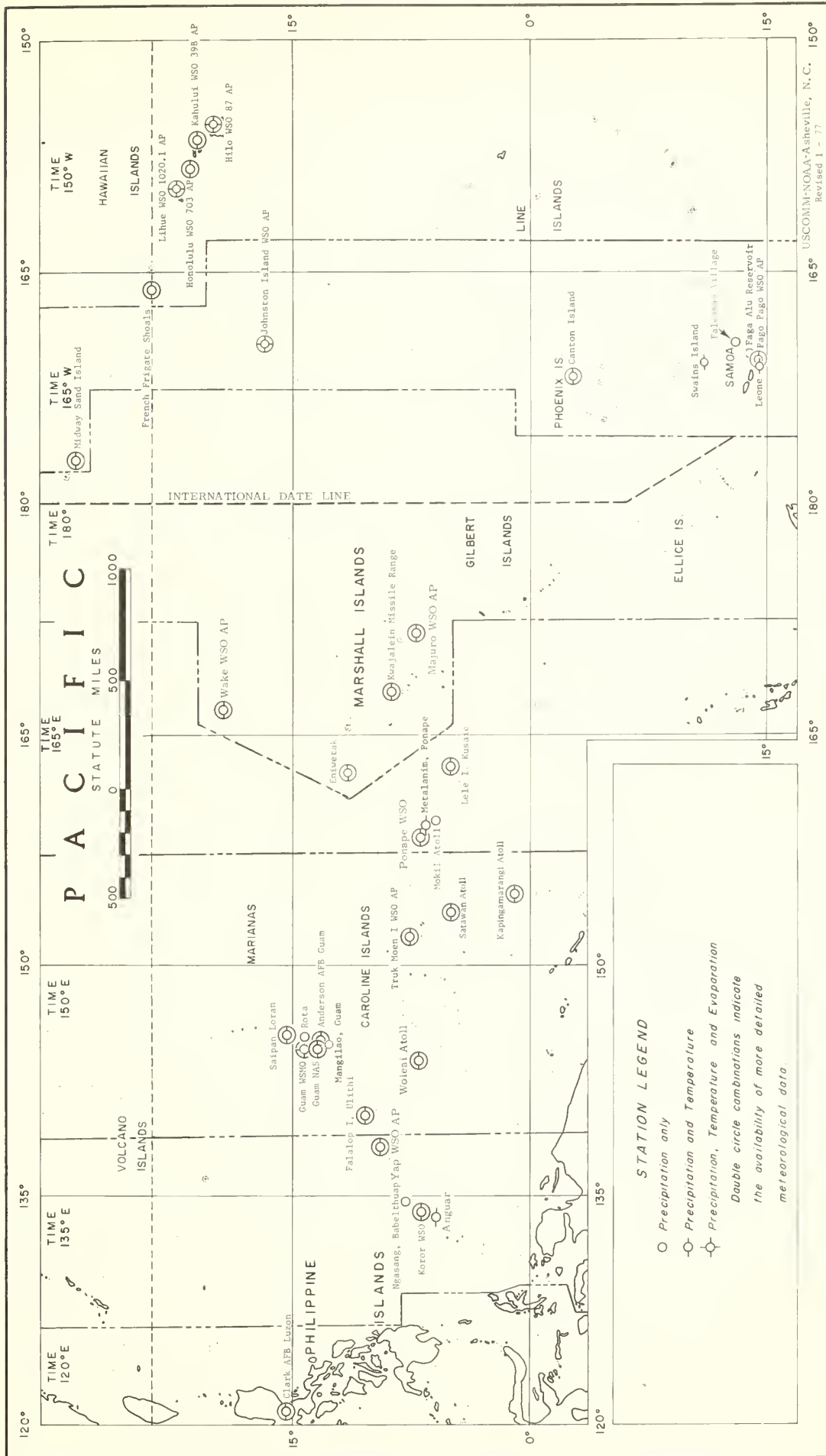
Information concerning the history of changes in locations, elevations, exposure, etc., of substations through 1957 may be found in the publication "Substation History" for this State, price 40 cents. Similar information for regular National Weather Service Offices may be found in the latest annual issue of Local Climatological Data, price 20 cents. These publications may be obtained from the National Climatic Center at the address shown above.

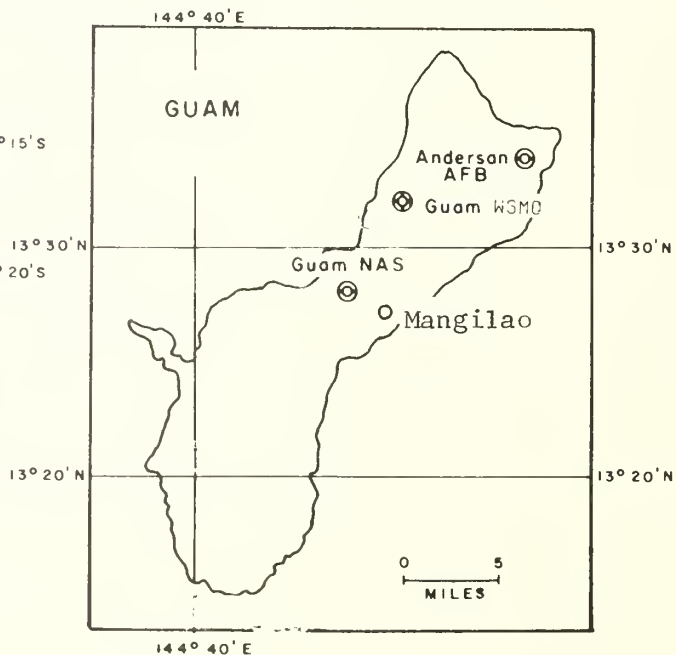
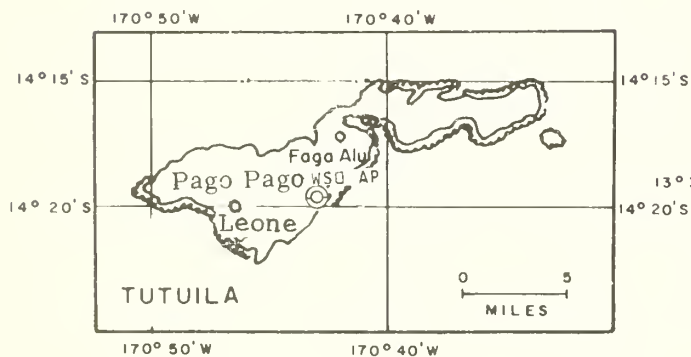
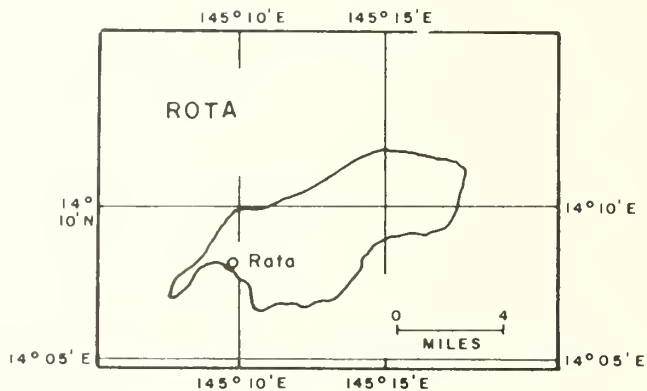
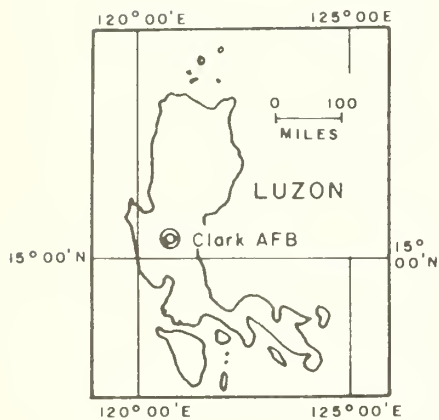
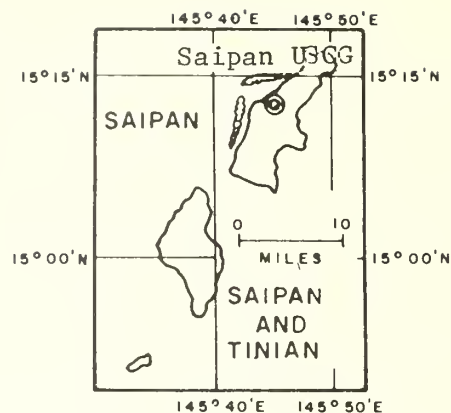
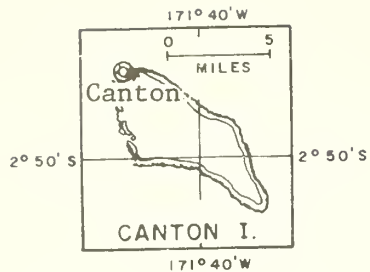
Subscription Price: \$5.10 a year for each section including annual summary; \$5.55 additional for foreign mailing; 40¢ single copy; 30¢ annual summary. Make checks payable to Department of Commerce, NOAA; send payments and orders to: National Climatic Center, Federal Building, Asheville, N. C. 28801. Attn: Publications.



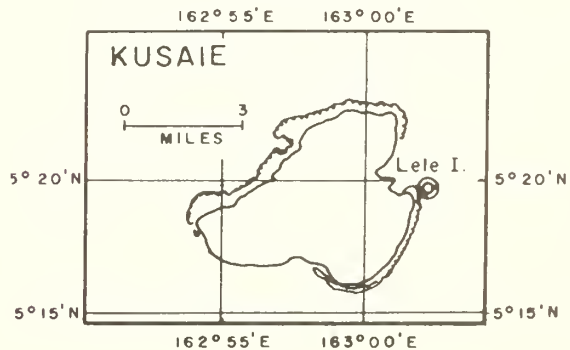
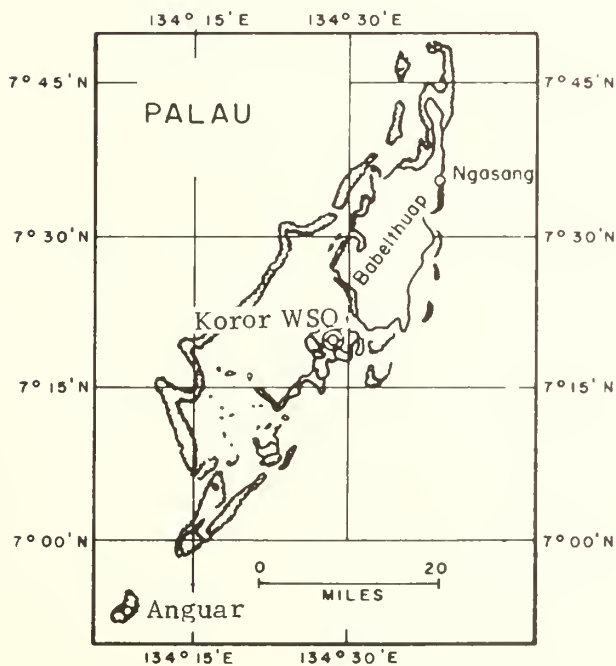
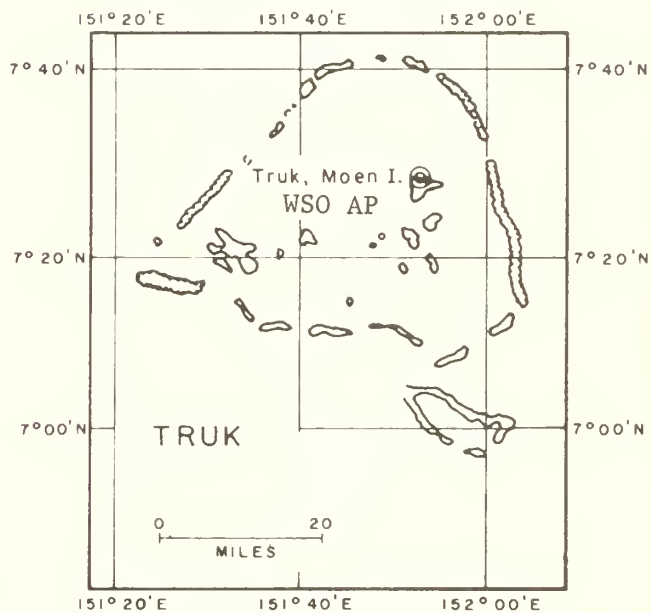
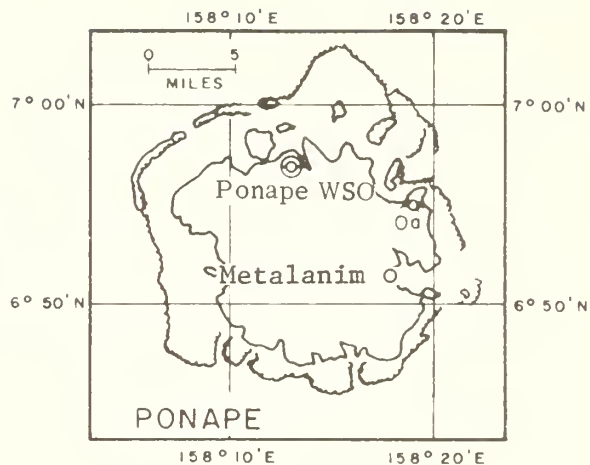
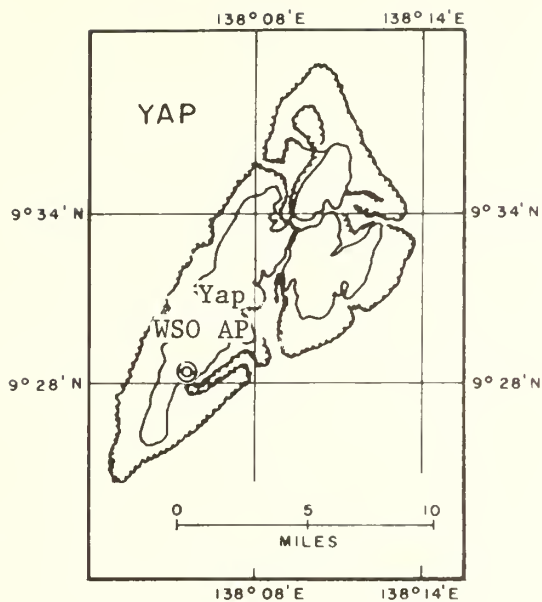






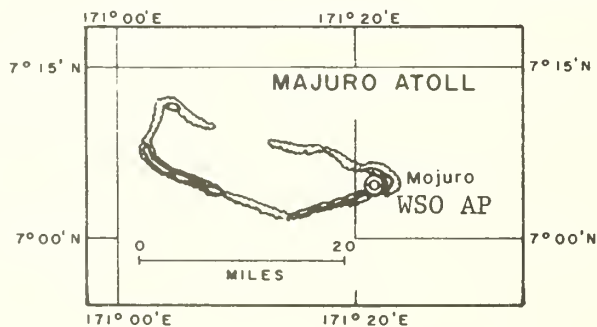
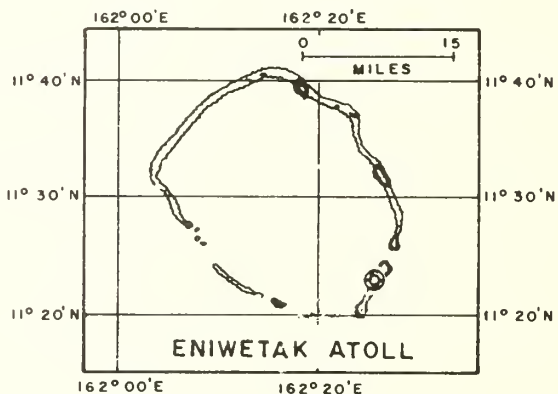
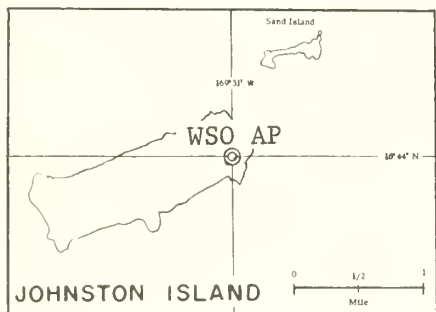
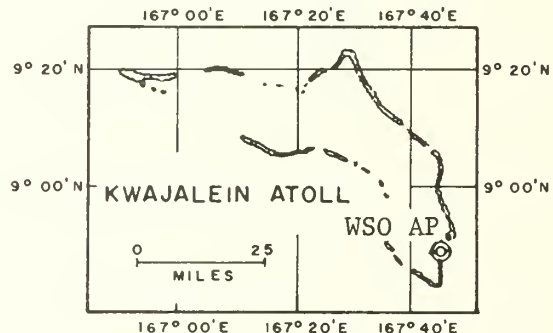
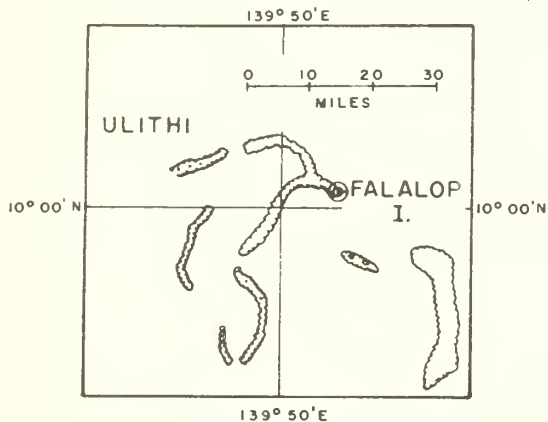
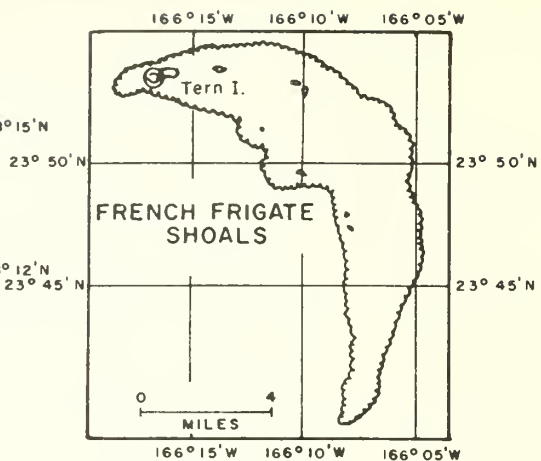
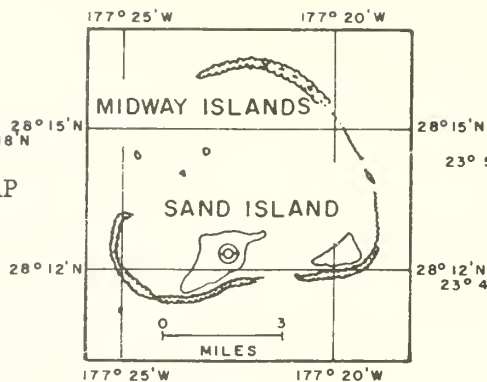
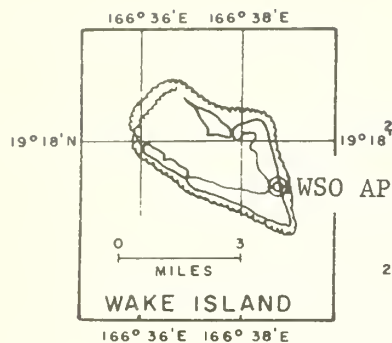


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Climatological Data

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UNITED STATES OF AMERICA

HAWAII AND PACIFIC

TEMPERATURE AND PRECIPITATION EXTREMES

HAWAIIAN STATIONS ONLY

HIGHEST TEMPERATURE:	2 STATIONS	94	DATE	09+	
LOWEST TEMPERATURE:	MAUNA LOA SLOPE OBS	HAWAII	34	DATE	23+
GREATEST TOTAL PRECIPITATION:	PUOHOKAMOA 2 343	MAUI	28.40		
LEAST TOTAL PRECIPITATION:	18 STATIONS		.00		
GREATEST 1 DAY PRECIPITATION:	KULANI CAMP 79	HAWAII	2.85	DATE	28

SUPPLEMENTAL DATA

	WIND (SPEED - M.P.H.)						RELATIVE HUMIDITY AVERAGES- PERCENT				NUMBER OF DAYS WITH PRECIPITATION										PERCENT OF POSSIBLE SUNSHINE	AVERAGE (TENTHS) SKY COVER SUNRISE TO SUNSET
	RESULTANT DIRECTION	RESULTANT SPEED	AVERAGE	FASTEST MILE	DIRECTION OF FASTEST MILE	DATE OF FASTEST MILE*	STANDARD OF TIME				TRACE	.01-.09	.10-.49	.50-.99	1.00-1.99	2.00 AND OVER	TOTAL					
							GREENWICH CIVIL															
							12	18	00	06												
GUAM WSMO	-	-	-	24	E	14	-	79	75	92	3	11	12	3	1	0	30	58	8.2			
HILO WSO 87 AP	S	0.7	5.8	16	E	31+	88	80	68	81	3	11	14	2	0	0	30	37	8.2			
HONOLULU WSO 703 AP	6	14.6	15.0	30	E	08	72	67	51	67	12	6	0	0	0	0	18	72	5.7			
JOHNSTON WSO AP	10	18.0	18.3	31	E	29+	81	78	72	78	7	12	2	0	0	0	21	86	5.8			
KAHULUI WSO 398 AP	S	15.7	16.3	34	NE	06	75	77	58	69	9	4	1	0	0	0	14	77	5.2			
KOROR WSO	2S	3.0	6.7	23	SW	27	89	-	83	82	3	4	7	6	5	2	27	31	9.6			
KWAJALEIN MISSILE RGN	8	11.0	11.7	32++	12	10	85	85	78	80	8	6	7	4	2	2	29	-	7.6			
LIHUE WSO 1020.1 AP	7	14.6	14.9	24	NE	08	78	74	67	73	11	10	6	0	0	0	27	63	6.7			
MAJURO WSO AP	7	8.9	9.4	29	E	05	84	86	77	82	4	6	13	4	3	0	30	57	8.5			
PAGO PAGO WSO AP	12	13.1	14.7	26	E	18+	79	81	73	78	7	9	3	0	2	0	21	53	7.6			
PONAPE WSO	-	-	-	21	E	24	92	-	77	79	1	7	11	7	3	1	30	40	8.4			
TRUK MOEN I. WSO AP	9	5.1	6.8	24	NE	13	87	-	79	79	3	7	11	5	2	0	28	40	9.8			
WAKE WSO AP	8	14.0	14.7	25	E	22+	85	88	67	74	6	11	6	1	0	0	24	85	4.1			
YAP WSO AP	18	0.6	6.5	19	SW	30+	88	-	83	79	3	9	6	8	2	2	30	23	9.4			

## MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

HAWAII AND PACIFIC  
JULY 1977

STATION		TEMPERATURE												PRECIPITATION										
		AVERAGE MAXIMUM	AVERAGE MINIMUM	AVERAGE	DEPARTURE FROM NORMAL	HIGHEST	DATE	LOWEST	DATE	DEGREE DAYS	NO. OF DAYS				TOTAL	DEPARTURE FROM NORMAL	GREATEST DAY	DATE	SNOW-SLEET		NO. OF DAYS			
											MAX.	MIN.	30° OR BELOW	32° OR BELOW					TOTAL	MAX. DEPTH ON GROUND	DATE	-10 OR MORE	-50 OR MORE	1-00 OR MORE
HAWAII																								
ISLAND OF KAUAI																								
ANAHOLA 1114	A	73.1	54.6	63.9		77	16+	45	23	0	0	0	0	1.65		.25	13	.0	0		0	0	0	
KANALOHULU 1075														1.02		.30	29	.0	0		3	0	0	
KAPAA STABLES 1104	A													1.40				.0	0		0	0	0	
KILAUEA POINT 1133		84.5	73.1	78.8		88	21+	70	18	0	0	0	0	1.75		.33	11	.0	0		7	0	0	
KOLOA 936	A													4.02		.68	12	.0	0		0	0	0	
LIHUE WSO 1020.1 AP	//R	83.4	73.7	78.6	.2	85	27+	70	1	0	0	0	0	1.30	-.57	.18	4	.0	0		6	0	0	
MANA 1026		87.9M	66.8M	77.4M	.4	90	30+	63	20	3	0	0	0	.33	-.29	.22	12	.0	0		1	0	0	
N. WAILUA DITCH 1051	A													8.77				.0	0					
PH. WAINIHA 1115																.93	13	.0	0		2	0	0	
PUEHU RIDGE 1040														.40	-.86	.30	29	.0	0		2	0	0	
WAIHANA 930	A													1.22	-.55	.26	12	.0	0		0	0	0	
WAIHAI LOWER 1054		75.2	65.8	70.5		77	26+	62	21+	0	0	0	0	8.68	-.99	1.75	11	.0	0		20	5	2	
WAIHAE 947														.00	-.44	.00		.0	0		0	0	0	
ISLAND				73.8										2.55				.0						
ISLAND OF OAHU																								
ALOHA STADIUM-HALAWA	M	M	M		86	29+	67	1		0	0	0	0					.0	0				0	
8 Y U LAIE 903.1		83.8M	71.8M	77.8M		86	26	70	7+	0	0	0	0	1.87		.30	28+	.0	0		8	0	0	
HONOLULU OBSERV 702.2														.05		.04	13	.0	0		0	0	0	
HONOLULU WSO 703 AP	R	87.7	74.0	80.9	.8	89	28+	69	1	0	0	0	0	.14	-.46	.05	28	.0	0		0	0	0	
KANEHE MAUKA 781		81.1	71.7	76.4	.2	84	28	70	27+	0	0	0	0	2.40	-2.10	.48	11	.0	0		7	0	0	
KOOLAUPU DAM 833	A													7.93		1.10	17	.0	0		19	7	1	
MANOA LYON ARBORETUM		78.6	67.8	73.2		82	28+	65	11	0	0	0	0	11.24		2.43	12	.0	0		18	6	3	
NUUANU RES 4 783														5.64		1.32	12	.0	0		12	4	1	
OPAEULA 870	A	79.9	65.1	72.5	.1	81	23	63	23+	0	0	0	0	1.16		.80	11	.0	0		2	1	0	
PALOLO VALLEY 718	R													7.44	-3.76	1.66	12	.0	0		17	5	2	
WAIHANA DAM 863	A													1.27				.0	0				0	
WAIHOLE 837	A													6.59				.0	0				0	
WAIKALEE 896.3		82.8	71.4	77.1		84	31+	69	26+	0	0	0	0	.98		.22	11	.0	0		3	0	0	
WAILAUA 847	A	84.4	65.2	74.8	1.3	87	29+	61	24+	0	0	0	0	.24	-.71	.18	11	.0	0		1	0	0	
WAIKIKI 717.2		86.1	70.3	78.2		89	2	65	1	0	0	0	0	.16		.08	30	.0	0		0	0	0	
WAIMANALO EXP FARM		83.1	72.4	77.8		85	28+	70	15+	0	0	0	0	.47		.17	30	.0	0		2	0	0	
WAIPIAHU 750	A													.07				.0	0		0	0	0	
ISLAND				76.5										2.98				.0						
ISLAND OF MOLOKAI																								
KUALAPUU 534	A													.88		.31	5	.0	0		0	0	0	
MAUNALO 511	A													.20		.08	28	.0	0		0	0	0	
MOLOKAI AP 524		85.8	70.1	78.0		89	24	66	22	0	0	0	0	.28		.13	28	.0	0		2	0	0	
ISLAND				78.0										.45				.0						
ISLAND OF LANAI																								
LANAI CITY 672	A													.66	-1.48	.43	17	.0	0		1	0	0	
ISLAND														.66				.0						
ISLAND OF MAUI																								
HALEAKALA B E 5 434	A	68.4	48.5	58.5	2.1	75	3	40	26	0	0	0	0	3.44		1.05	28	.0	0		9	2	1	
HALEAKALA RS 338		82.4M	70.7	76.6M		84	29+	68	3	0	0	0	0	1.02	-1.35	.83	28	.0	0		2	1	0	
HANA AIRPORT 355														3.32		.61	12	.0	0		12	1	0	
HONOKOHU 493	A													2.51				.0	0				0	
KAAHAPALI AP 453.1		83.9	67.8	75.9		87	30+	64	26+	0	0	0	0	.24		.09	28	.0	0		0	0	0	
KAHULUI WSO 398 AP	R	85.4	70.5	78.0	.2	90	29	62	23	1	0	0	0	.43	-.04	.28	27	.0	0		1	0	0	
KAILUA 446																		.0	0					
KEANAE 346	A													19.70				.0	0					
KIPAHULU 258														5.85	-3.07	1.13	31	.0	0		11	5	2	
KULA SANATORIUM 267		74.4	60.0	67.2	1.6	78	29	57	23+	0	0	0	0	.08	-2.09	.03	28+	.0	0		0	0	0	
LAHAINA 361		88.2	68.3	78.3	.7	89	31+	66	23+	0	0	0	0	.21	-.00	.21	28	.0	0		1	0	0	
PAIA 406														1.15	-.53	.30	28	.0	0		3	0	0	
WAILUKU 386	A					84	29	70	11+	0	0	0	0	.59	-.15	.49	28	.0	0		1	0	0	
ISLAND				72.4										3.21				.0						
ISLAND OF HAWAII																								
HAWAII VOLCNS NP HQ 54	R	70.0M				76	28			0	0	0	0	5.85	-.62	.81	28	.0	0				0	
HILO WSO 87 AP	A	84.6	69.5	77.1	1.8	89	2	66	23	0	0	0	0	6.36	-3.18	.81	7	.0	0		16	3	0	
HUEHUE 92.1														.88		.47	4	.0	0		3	0	0	
KAINALU 73.2		78.0	62.6	70.3		81	28+	59	24	0	0	0	0					.0	0					
KAPOHO BEACH 93.11		86.1	70.1	78.1		90	25	67	10+	1	0	0	0	3.55		.71	10	.0	0		11	1	0	
KEAAU 92		80.8	67.3	74.1		84	29+	65	23+	0	0	0	0	8.55		1.02	17	.0	0		23	5	1	

SEE REFERENCE NOTES FOLLOWING STATION INDEX



## MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

HAWAII AND PACIFIC  
JULY 1977

STATION		TEMPERATURE											PRECIPITATION												
		AVERAGE MAXIMUM	AVERAGE MINIMUM	AVERAGE	DEPARTURE FROM NORMAL	HIGHEST	DATE	LOWEST	DATE	DEGREE DAYS	NO. OF DAYS				TOTAL	DEPARTURE FROM NORMAL	GREATEST DAY	DATE	SNOW . SLEET			NO. OF DAYS			
											MAX .		MIN .						TOTAL	MAX. DEPTH ON GROUND	DATE	.10 OR MORE	.50 OR MORE	1.00 OR MORE	
											90° OR ABOVE	32° OR BELOW	32° OR BELOW	0° OR BELOW											
HAWAII																									
KEALAHEKUA 2 28.7	A	79.0M	64.3M	71.7M		84	17	61	25+	0	0	0	0	4.80	2.52	1.41	9	.0	0		11	3	1		
KONA (KAILUA) 68.3		M	M	M		88	28	68	6	0	0	0	0	2.44		.0	0			0				0	
KUKUIHALE HIC 199	A	65.7M	49.5M	57.6M		72	16	42	24	0	0	0	0	7.71		1.42	13	.0	0		15	5	1		
KULANI CAMP 79		M	M	M		87	28	60	27+	0	0	0	0	.38		2.85	28	.0	0		2	0	0		
PAHALA 21																.19	22	.0	0						
POHAKULOA 107	A													.00		.00		.0	0		0	0	0		
PUUKOHOLA HEIAU 98.1	A	90.0M	70.1M	80.1M		94	9	68	28+		0	0	0	.54		.40	1	.0	0				0		
PUU WAAHAA 94.1		M	M	M										.84				.0	0				0		
SOUTH KONA 2.31						85	28+	55	23	0	0	0	0	.33		.10	17	.0	0		1	0	0		
WAIKAEA SCO 88.2														15.14		1.54	28	.0	0		23	15	3		
ISLAND*				72.7										4.32				.0							

SEE REFERENCE NOTES FOLLOWING STATION INDEX

## MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

HAWAII AND PACIFIC  
JULY 1977

STATION		TEMPERATURE										PRECIPITATION												
		AVERAGE MAXIMUM	AVERAGE MINIMUM	AVERAGE	DEPARTURE FROM NORMAL	HIGHEST	DATE	LOWEST	DATE	DEGREE DAYS	NO. OF DAYS				TOTAL	DEPARTURE FROM NORMAL	GREATEST DAY	DATE	SNOW, SLEET			NO. OF DAYS		
											MAX.		MIN.						TOTAL	MAX. DEPTH ON GROUND	DATE	1.0 OR MORE	.50 OR MORE	1.00 OR MORE
											32° OR ABOVE	32° OR BELOW	32° OR ABOVE	32° OR BELOW										
PACIFIC																								
EAST OF 180TH MERIDIAN																								
CANTON ISLAND		89.2M	80.5M	84.9M		91	25	78	28+		0	0	0	0	5.61		1.23	6	.0	0				2
FAGA ALU RESERVOIR															10.45		2.85	15	.0	0		16	8	2
FALEASAO VILLAGE															.72		.18	29	.0	0		2	0	0
JOHNSTON WSO AP		84.1	76.6	80.4	-.4	86	31	73	18+		0	0	0	0	5.06	-.37	1.57	10	.0	0		9	3	1
LEONE		84.1M	77.3M	80.7M		89	14	69	27		0	0	0	0					.0	0				
FRENCH FRIGATE SHOALS		85.3	73.2	79.3	-.8	88	7+	69	3		0	0	0	0	.55	-1.61	.09	7	.0	0		0	0	0
MIDWAY SAND ISLAND		82.1	72.2	77.2	-.6	84	15+	63	17		0	0	0	0	3.88	.42	1.16	17	.0	0		11	2	1
PAGO PAGO WSO AP		82.7	75.5	79.1	.8	87	14	64	27		0	0	0	0	2.92	-4.02	1.14	10	.0	0		5	2	2
WESTERN PACIFIC ISL. NORTH OF 12 N																								
ANDERSEN AFB GUAM		83.9	77.0	80.5	.1	86	15	74	25+		0	0	0	0	6.42	-2.59	1.15	25	.0	0		17	3	2
CLARK AFB LUZON		86.3	73.6	80.0	-.6	91	15+	70	31		10	0	0	0	13.81	1.35	1.86	22	.0	0		19	10	4
GUAM NAS		87.8	78.5	83.2	1.8	89	29+	73	15		0	0	0	0	5.82	-3.77	1.47	16	.0	0		10	4	1
GUAM WSO		86.7	73.3	80.0	.6	88	31+	70	3		0	0	0	0	7.25	-2.34	1.98	21	.0	0		16	4	1
HANGILAO															8.59		1.71	17	.0	0		18	7	2
ROTA															8.14				.0	0				
SAIPAN LORAN																								
WAKE WSO AP		89.2	76.4	82.8	.8	91	27	73	22+		12	0	0	0	2.40	-2.05	.66	22	.0	0		7	1	0
CAROLINE AND MARSHALL ISLANDS																								
ANGUAR															18.32	-2.92	1.56	3	.0	0		28	16	9
ENIWEATK		85.8	80.6	83.2	.5	87	30+	77	16		0	0	0	0	6.42	-.45	1.20	4	.0	0		13	5	1
FALALOP I. ULITHI		84.2M	76.5M	80.4M							0	0	0	0			1.01	25	.0	0				
KAPINGAMARANGI ATOLL		88.6M	74.3M	81.5M		91	14+	72	31+		13	0	0	0			2.56	9	.0	0		13	7	
KOROR WSO		86.6	75.5	81.1	.0	90	25+	73	31+		2	0	0	0	20.72	4.53	4.15	4	.0	0		20	13	7
KWAJALEIN MISSILE RGN		86.3	77.2	81.8	-.3	88	30+	74	25+		0	0	0	0	13.01	3.31	2.97	25	.0	0		15	8	4
LELE I. KUSAIE																								
MAJURO WSO AP		86.1	75.7	80.9	-.1	88	31+	73	10		0	0	0	0	10.88	-2.76	1.60	21	.0	0		20	7	3
METALANIM		85.4	75.3	80.4		88	30+	72	17+		0	0	0	0	15.23				.0	0				
MOKIL ATOLL															13.84	9.90	2.25	22	.0	0		12	8	7
NGASANG, BABELTHUAP																								
PONAPE WSO		88.5	73.8	81.2	1.2	91	19	72	17+		12	0	0	0	16.97	-.85	3.45	7	.0	0		22	11	4
SATAWAN ATOLL																								
TRUK, MOEN I. WSO AP		87.8	75.6	81.7	1.0	90	21+	73	25+		3	0	0	0	9.11	-6.30	1.91	8	.0	0		18	7	2
WOLEAI ATOLL		87.1M	74.1M	80.6M		90	20	71	25+		1	0	0	0			2.00	28+	.0	0				
YAP WSO AP		86.6	73.5	80.1	-1.1	90	11	70	15		1	0	0	0	17.21	2.57	3.96	17	.0	0		18	12	4

SEE REFERENCE NOTES FOLLOWING STATION INDEX

## DAILY PRECIPITATION

HAWAII AND PACIFIC  
JULY  
1977

STATION	TOTAL	DAY OF MONTH																																
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
HAWAII																																		
ISLAND OF KAUAI																																		
ANAHOLA 1114	A	1.65	x	x			.10 .07	.04 .05	x			.20 .10	.25		.10				.25	.10 .07 .03							.03 .05 .21							
BEYDSEAD 57A 985	A	3.04					.12 .10	.11 .15	x			.42 .32	.31	.04 .06					.32	.07 .02 .01								.08 .05						
EAST LAHAI 934	A	4.01	.02	x			.35 .13	.02 .04				.66 .102	.35 .08 .14						.42	.33 .02 .07								.04 .05	.03 .26	x				
ELEELE 927	A	.61					.11 .05	T .02	x			.13 .11	.07 T						.05	.03 T									.04	x				
HALAULA 1110	A	1.90	.03	x			.15 .10	.07 .15	x			.15 .09	.20 .03 .10						.10	.10 .20 .05							.03 .10 .12							
HALENANAH 1006	A	4.28					.41 .05	.06 .08	x			.43 .69	.41 .11 .16						.47	.35 .07 .15							.03	.14 .04	.04 .55	x				
HUKIPB 845	A	.00																										.04 .14 .04						
ILILIULA INTAKE 1050	A	11.95	.02	x	x		.97 .42	.47 .43	x			1.98 .120	1.65 .09 .27					x	1.38	.49 .21 .14							x	.04 .12 .14	.28 .15	x				
INTAKE WAINIMA PC 1086	A	6.08	1.66	x			.91		x			.73	x	x	1.75				.77	x	x	x	x	x			x	.40	x					
KANALOHULULU 1075	A	1.02		.03			.09 .11 .06	.06 .05				.17	.02						.03 .04					.01				.02						
KANEHA RESERVOIR 1092	A	4.87					.40 .25	.10 .20	x			.60 .35	.70 .10 .25						.40	.35 .20 .05							.03	x	.19 .15 .20	.05 .30	x			
KAPAA STABLES 1104	A	1.40	.02	x			.19 .03	.03 .02	x			.14 .03	.05 .05 .10						.18	.18 .04 .13							.02 .02	.10 .07						
KEALIA 1112	A	1.12					.14					.19 .08	.10 .10						.05	.11 .07 .05							.05 .03	.05 .03						
KEKAAHA 844	A	.01																																
KILAUEA 1134	A	3.30	.03	.02			.08 .05 .12			.23	.10 .80 .11	.32 .07 .01							.10 .05	.24 .07					.05	.04	.04 .05	.65	.06					
KILAUEA POINT 1133	A	1.75		.01			.07 .12 .16	.06 .06 .03				.33 .11	.22 .01						.05 .03							.02 .03		.04 .05	.15 .15 .01	.04				
KILO 1033	A	.08																																
KILOA 936	A	4.02					.35 .14	.01 .05	x			.42 .68	.55 .10 .14						.51	.46 .03 .16							.05 .10	.02 .24						
KILOA LN (PMK) 940.1	A	.86	.04				.01 .01 .01	.01		.02	.02 .01 .12	.01							.05 .11	.25 .08							.01 .01 .02	.06 .01						
KILOA MAUKA 994	A	4.31	x	x	x			.56	.12	x		.52	.33	x	x	x	x	x		.83	x	x	x	x			.01 .01 .02	.39	.46	x	x			
KUKULUA 935	A	1.59	.01	x	x		.18 .02	.03	x			.23 .23	.18 .05 .10					x	.12	.19 .07								.02	T .15	x				
LIHUE VARIETY ST 1062.1	A	3.90	.07	x			.56 .07	.08 .08	x			.60 .51	.44 .14 .11					x	.51	.22 .08 .03							.01	x	.04 .07 .03	.02 .24	x			
LIHUE 1020	A	.79					.21	.03	x			.20 .17	.12 .02 .17					x	.19	.29 .06								.02 .12 .01	.17	x				
LIHUE WSO 1020.1 AP	A	1.30	T	T	T		.18 T	.03 .10 .12				.17 .02	.03 .08 T					T	.09 .05	.14 .04 T								T .07 T	.11					
MAKAHELI 965	A	.08					.04					.01																						
MAHA 1026	A	.33										.20 .22							.13 .02	.05														
MAHAUHI UPD CQ855 1083	A	1.49					.13 .07 .20			.07 .07		.20 .07	.07						.19	.07														
MAHOLA 1145	A	.70	.14	x			.02					.14	x							.18								.04						
MOUNT WAIALALE 1047	A	.30											.30																					
MT RIDGE 1035	A	.30											.30																					
N WAIALUA DITCH 1051	A	8.77					.85 .19	.38 .39	x			1.34 .92	1.20 .17 .12						.70	.61 .22 .17							.06 .10 .26	.25 .84	x					
PH WAIRIHIA 1115	A	.76					.28 .17	.26 .08	x			.38 .45	.93 .34 .41						.37	.23 .03 .03							.02 .05	.03 .83	x					
PRINCEVILLE RANCH 1117	A	.04					.34 .05	.16 .14					1.86 .14						.36	.21 .06 .02							.06 .05	.65 .41	x					
PUEHU RIDGE 1040	A	.40										.10																						
PUNI 1013	A	1.08	.05	x			.16					.10 .24	.06 .02						.06	.17 .04								.05	.02	.10				
WAIAHUA 930	A	1.22					.23 .11	.01 .02	x			.15 .26	.05 .01 .03						.12	.12 .01 .01														
WAIAHI LOWER 1054	A	8.68	.04 .05 .02				.40 .12 .11	.12 .21 .16				.02 .175 .147	.81 .06 .29						.02 .36 .52	.45 .22 .13							.02	.01 .11 .08	.13 .56 .28	.14				
WAIAHI UPPER 1052	A	10.80	.05 .04 .01				.74 .10 .25	.20 .33 .22				.12 .129 .160	.80 .35 .40						.02 .05 .95	.51 .33 .13							.04 .01 .03	.04 .16 .21	.27 .16 .14	.25				
WAIALA 943	A	.88					.28 .08	.02 .04				.10 .20	.16 .03 .10						.17	.07 .17 .04								.06	.10 .11					
WAIALA KAI 1065	A	1.82					.28 .08	.02 .04				.10 .20	.16 .03 .10						.17	.07 .17 .04								.06	.10 .11					
WAIMEA 947	A	.00																																
WEST LAHAI 931	A	1.79	.02	x			.30 .03	.01 .06	x			.25 .02	.25 .04 .10						.22	.23 .02 .03								.05	.05 .11	x				
ISLAND OF OAHU																																		
ALPHA STADIUM-HAWAII	A	.34	T	x			.02 T	.07	.01	.02		.14			.01				.72	.01							.20 .30	.01	.10	T	.03			
BEETARFA PUMPING STA	A	1.87					.04 .10 .30	.20				.02 .20	.30 .05 .10						.01	.02							.05		.30 .20					
B Y U LAIE 803.1	A	.04						.02				.08							.02															
CAMPBELL JNO PK 702.5	A	.14	x	x	x			.04	x	x		.08	x	x	x	x	x	x	.02	x	x	x	x	x	x	x								
CAMP 84 807	A	.14						.04	x	x		.08	x	x	x	x	x	x	.02	x	x	x	x	x	x	x								
COCONUT ISLAND 840.1	A	.10					.01 .02			.04		.62 .06	.10 .04						.04									.01		.01				
EUAR PLANTATION 741	A	.10																																
HELEMANO INTAKE 861	A	2.15					.14	.23	x	x		.93	x	x	.25	x	x	.39	x	x	.04	x	x	x	x	x								
HONOLULU OBSERV 702.2	A	.05																																
HONOLULU WSO 703 AP	A	.14					T T T	T T				.02 .01 .03							T T T										.02	.05 .01 T				
KAEHA POINT 841.3	A	.22					.10					.70							.11															
KAHANA 893	A	16.67					.42					.06							.74									.73						
KAILUA FIRE STA 791.3	A	.76					.03 .12 .01	.01				.09 .23 .13	.06 .02 .05						.02 .05								.05	.01	.02					
KALIMU RES SITE 777	A	6.18	.14 .02 .04				.04 .12 .01	.02 .02				1.00 .60 .102	.30 .18						.22 .24 .18								.12	.12	.04 .40	.92 .08 .28				
KANEHE MAUKA 781	A	2.40																																

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# DAILY PRECIPITATION

HAWAII AND PACIFIC  
JULY 1977

STATION	TOTAL	DAY OF MONTH																																
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
HAWAII																																		
KUKUIHALE MILL 206	A	3.71	.10	x	x	.06	.15	.10	.33	x	.19	.15	.43	.32	.07	x	x	.43	.41	.02	.05	.07	x	x	.04	x	.64	.01	.04	.10	x			
KULANI CAMP 79	A	7.71	x	x	.01	.12	.03	.21	.07	.59	.37	.19	.73	.21	.15	.07	x	.10	.85	.56	.05	.05	.03	x	.12	.12	.10	.06	2.85	.04	.03	x		
KULANI MAUKA 76	A	2.07	x	x	x	x	1.04	x	x	x	x	x	.43	x	x	x	x	.22	x	x	x	x	x	x	.02	x	x	x	x	x	x	.36	x	
KULANI SCHOOL SITE 78	A	7.11	x	.42	x	x	x	x	x	1.35	x	x	x	x	x	x	1.16	x	x	x	x	x	x	1.25	x	x	x	x	x	x	2.93	x		
LANTHAU 68.2	A	6.77	.03	.23	.55	.61	.18	.52	.12	.62	.15	.05	.06	.31	.03	.08	.08	.51	.39	.32	.84	.72	.03	x	x	x	x	.04	.30	x	x			
MAKAHALAU 103	A	.62	x	x	x	.20	.10	.10	x	x	.40	.18	x	x	.07	x	x	.07	x	x	.07	.07	.05	.15	x	x	x	x	x	x	x			
MAUKA 2	A	1.90	x	x	x	.80	x	x	x	x	.03	.21	.10	.03	.20	.05	.35	x	x	x	x	x	x	x	1.57	x	x	x	x	x	x			
MAUNA KEA 085 I11.2	A	.49	x	x	x	x	x	x	.90	x	x	.80	x	x	x	x	x	.35	x	x	x	x	x	x	x	x	x	x	x	x	x			
MAUNA LOA SLOPE 085	A	.21	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x			
MIDDLE HOLUALOA 68.1	A	3.62	x	x	x	x	x	x	x	x	x	.80	x	x	x	x	x	.35	x	x	x	x	x	x	x	x	x	x	x	x	x			
MIDDLE PEN 147.1	A	.69	.32	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x			
MOAULA 18	A	.00	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x			
MOUNTAIN VIEW 91	A	13.99	.06	.03	.21	.59	.42	.50	.71	1.08	.65	.37	.74	.37	1.35	.33	.67	.05	1.43	.40	.34	.17	.46	.19	.01	.42	.36	.01	1.47	.20	.21	.19	x	
NAALEHU 14	A	1.12	.02	x	x	x	.62	x	x	x	x	x	.09	.02	.02	.06	x	x	.04	x	x	x	.22	.02	.02	.02	.02	.02	.02	.02	.02	.02		
NAP00P00 28	A	2.75	x	x	x	x	.62	x	x	x	x	.87	x	x	x	x	x	.04	x	x	x	x	x	x	1.22	x	x	x	x	x	x	x		
OBOKA 223	A	9.40	.16	T	.04	.28	.29	.61	.09	.58	.51	.24	.35	.63	.70	.76	.38	.01	.60	.50	.11	.12	.04	.24	T	.18	.31	.01	1.14	.21	.13	.20	x	
OPINIHAE 2 24.1	A	3.85	.48	.50	T	.10	T	.13	T	.93	T	T	.15	T	T	.03	T	.04	.83	.43	.03	.04	.18	x	T	T	T	.03	.12	.01	T	x		
ORCHID LAND EST 91.5	A	8.59	.13	x	x	x	x	x	2.23	x	x	x	x	x	3.06	x	x	x	x	x	x	x	1.84	x	x	x	x	x	x	1.32	x	x		
PAUKAHU 217	A	4.72	.29	x	x	.05	.05	.53	.09	.34	.12	.03	x	.12	.85	.17	.11	.02	.27	.19	.12	.01	.11	.21	T	.18	.48	1.14	.11	.03	.05	x		
PAUKAHU 221	A	8.35	.28	x	x	.10	.10	1.55	.11	.41	.52	.29	.08	.06	.60	.45	.22	.20	.92	.06	.08	.11	.21	T	.18	.48	1.14	.11	.03	.05	x	x		
PAHOLA 21	A	.38	.01	x	x	.02	.45	.46	.79	.30	.58	.67	1.06	.15	.34	.10	1.07	.30	.06	.04	.33	.19	.03	.13	.45	.20	.08	.02	x	x	x	x		
PAHOLA 65	A	9.64	.12	.02	.15	.41	.30	.12	.45	.46	.79	.30	.58	.67	1.06	.15	.34	.10	1.07	.30	.06	.04	.33	.19	.03	.13	.45	.20	.08	.02	x	x		
PAKAB 37	A	.00	.24	x	x	x	.78	.18	.61	.51	x	x	1.07	.64	.53	.03	.50	x	x	1.15	.49	.16	.53	.05	x	x	.37	.19	.01	.72	.40	x	x	
PAPAIKOU 144.1	A	x	.16	x	x	x	.65	1.30	.84	.98	x	x	1.07	.75	1.17	.34	1.20	x	x	2.80	.86	.76	1.11	.26	x	x	1.15	.51	.11	2.00	.23	x	x	
PAPAIKOU MAUKA 140.1	A	x	.16	x	x	x	.65	1.30	.84	.98	x	x	1.07	.75	1.17	.34	1.20	x	x	2.80	.86	.76	1.11	.26	x	x	1.15	.51	.11	2.00	.23	x	x	
PIIKOHUA 89	A	18.00	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x		
POHAKULOA 107	A	.00	.40	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x		
PUUKOHOLA HEIUA 98.1	A	.97	.09	x	x	x	.15	x	x	x	x	x	.14	.02	.12	.01	x	x	x	.15	.11	x	x	x	x	x	x	x	x	x	x	x		
PUU LEHUA 73	A	.84	.09	x	x	x	.15	x	x	x	x	x	.14	.02	.12	.01	x	x	x	.15	.11	x	x	x	x	x	x	x	x	x	x	x		
PUU WAHUA 94.1	A	.84	.09	x	x	x	.15	x	x	x	x	x	.14	.02	.12	.01	x	x	x	.15	.11	x	x	x	x	x	x	x	x	x	x	x		
SADDLE ROAD I 84	A	20.74	x	x	x	x	x	x	3.38	x	x	x	x	x	7.00	x	x	x	x	x	x	5.36	x	x	x	x	x	x	5.00	x	x	x	x	
SOUTH KONA 2.31	A	.33	x	x	x	x	.04	.02	x	x	.01	x	x	x	x	.20	.10	.04	x	x	x	.09	x	x	x	x	x	x	.03	x	x	x	x	
SOUTH POINT CORRAL 3	A	.70	x	x	x	x	x	x	x	x	x	x	x	x	x	.20	.10	.04	x	x	x	.09	x	x	x	x	x	x	.03	x	x	x	x	
UPULU POINT USCG 159.2	A	2.24	.08	T	.03	.22	.41	.14	.14	T	.16	.38	T	.16	.38	T	.16	.27	.14	.03	T	T	.50	T	T	T	T	T	T	T	T	T	T	
WAIKAKA SCO 88.2	A	15.14	.04	.05	.35	.59	.45	.47	.66	.73	.56	.71	.58	.88	1.24	.10	.66	1.38	.93	.70	.06	.70	.40	.38	.50	.18	1.54	.06	.22	.02	x	x	x	
WAIKALOA-8015 CAS 95.8	A	.04	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x		

SEE REFERENCE NOTES FOLLOWING STATION INDEX



# DAILY PRECIPITATION

HAWAII AND PACIFIC  
JULY 1977

STATION	TOTAL	DAY OF MONTH																															
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
PACIFIC																																	
* * *																																	
EAST OF 180TH MERIDIAN																																	
CANTON ISLAND	5.61		.24	*	*	.13	1.23	.08	.25	*	.70		.41	.02		.09	*	.65	.17					*	.04	.03	1.17	.29	.03	.08		*	
FAGA ALU RESERVOIR	10.45			.07	.28	.19	.73	.34	.56	.81	.18	.11	.67	.94	.06	2.85	1.16	.01	T							.21	.42	.64				*	
FALERSAD VILLAGE	.72		.03	.04	T	.05	.02		T	T		T	.08		.03		.03	.13	T	.01	.03	T	T	.04	.17	.01	.06		.18		.02		
JOHNSTON WSO AP	5.06	.09	.06	.21	.31				.27	.23	1.57	.04	.98	.33	.67	.03		.02	.04	.05												.16	
LEDNE																																	
FRENCH FRIGATE SHOALS	.55	.01				.02	.01	.09	.02	.01	.02	.03		.01			.11	1.16	.28	.01	.05	.08	T	.05	.29	.07	.05	.02	.01	.02		.06	
MIDWAY SAND ISLAND	3.88	.02	.03			.08	.01		.08	.01	T		.03	.14	.01	.17	.11	1.16	.28	T	.01	T	T			.29	.05	.12	.56	.28	.22	T	
PAGO PAGO WSO AP	2.92	.13	.04	.08	.04	T	.01	T	.06	.01	1.14	T	.19	1.00	.04	.13			T	T	T					T					.02	.03	
* * *																																	
WESTERN PACIFIC ISL.																																	
NORTH OF 12° N																																	
ANDERSEN AFB GUAM	6.42	.02	.11	.15	.19	.24	.03	.01	.19	.09	.18	.13	T	.01	.22	.35	1.08	.32	.18	.07	.01	.51	T		.06	1.15	.37	.47	.21		.07	T	
CLARK AFB LUZON	13.81	.01	.96	.12	.13	T	T		.41	.48	.05	.07	1.52	T	.47		.10	.72	1.57	1.68	.53	.37	1.86	.86	.64	.66	.05	.04	.06	.31		.21	
GUAM NAS	5.82	T	.08		.05	.08	.05	.02	.07	.07	.07	.07		.09	.09	.70	1.47	.04	.06	.92	.19	T	.29	.12	.79	.11	.17	.09	.12	.01		*	
GUAM WSO	7.25	T	.02	.22	T	.20	.03	.05	.19	.04	.09	.06	.12	.11	T	.32	.86	.23	.12	.37		1.98	.10	.11	.07	.40	.73	.56	.09	.09	.07	.02	
MANJILAO	8.59	.10			.17	.17	.05	.10	.06	.57		.04	.13	.01	.02	.57	1.04	1.71	.15	.03	.40	.20	.37		.21	.93	.65	.50	.05	.32		.04	
ROTA	8.14	.90	*	*	*	.85	.11	.27	.43	*	*	*	*	.93	.47	.21	*	*	.35	.41	.17	.36	.11	*	*	1.36	.10	.29	.11	.47	.18	.06	
SAIPAN (ORAN)																																	
WAKE WSO AP	2.40	.31	.02	T	.03	.18	.01	.01	.01		T	.01	.02	.25	.02			.16	.06					.66	T	T	T	T		.04	.02	.35	
* * *																																	
CAROLINE AND MARSHALL ISLANDS																																	
ANGUAR	18.32	.17	1.25	1.56	.97	1.04	.65	.43	.13	1.05	1.32	1.40	1.03	.52	.05	.03	.15	.27	1.02	.26	.56	1.00	.90	.63	.12	.73	.12	.09	.37	.15	.20	.15	
ENHETAK	6.42	.04	.01		1.20	.42	.09	.03	.21	.01		.02	.02	.16	.13	.05	.98	.01	.03	.08	.13	.14	.07	.03	.68	.52	.46	.01	.04	.08	.20	.57	
FALALAP I., ULITHI		.10				.10	.10	.03	.05	.01	.02				.10	.04		.18	.13	.01	.01	.01	.01			1.01	.01	.02	.04	.04		*	
KAPINGMARANGI ATOLL		.45	1.40	.53	.34	.54	.66	.23	1.26	2.56	1.55		.15	.55	1.01	.03		.92	.13	.09		.07	.03	.90	.48	.03	1.60	.02			2.00	*	
KORDA WSO	20.72	T	.09	.15	4.15	1.71		1.20	.73	T	.02	.84		.13	1.64	.03	.12	1.27	.78	.12	T		.21	.08		.47	.52	.94	1.53	.49	2.51	.99	
KWAJALEIN MISSILE RGN	13.01	.02	1.30	T	.40	.01	1.20	.22	2.02	.48	.48	.74	T	.01	.29	.02	.06	T		T	.34	.25	.51		.06	2.97	T	.78	T	T	T	.84	
LELE I., KUSAIE																																	
MAJURO WSO AP	10.88	.02	.17	.30	.77	.25	.22	.16	1.38	.36	1.43	.82		T	.03	.04	.35	T	.01	.33	.83	1.60	T	.25	.35	.05	.15	.15	.68	T	.02	.16	
METALANIM	15.23	.81	.01	.06	.73	.10	.71	.33	.35	1.74	.73	.05	1.39	.32	.31	.45	.28	.07		.14	*	2.00	*	1.78	1.03	.07	.85					.82	
MOKIL ATOLL	13.84	.97	.01	T	1.43	T		.10	2.00	1.53		.05	.01		.20	2.00				T		.05		T	1.28	.10	.06	.25	1.50		.05	*	
NGASANG-BABELTHUAP																																	
PONAPE WSO	16.97	.01	.08	.96	T	.30	1.27	3.45	1.35	.66	.48	.03	.97	.96	.42	.04		.03	.40	.27	.03	.02	.62	.43	1.43	.11	.12	.82	.39	.11	.73	.47	
SATAVAN ATOLL																																	
TRUK, MOEN I., WSO AP	9.11		.40	.10	.06		.18	.54	1.91	.08	.14	.25	.20	1.29	.83	.14	.50		.16	.03	.01	.05	.05	T	.11	.73	.04	.47	.12	.72	T	*	
WOLEAI ATOLL				.60		2.00		.82			.90	.61	.41	1.00			.74		.44		.45	.61	.01	.64	.69	.31	2.00	.08	2.00	.48	.31	1.90	
YAP WSO AP	17.21	.03	.66	.07	.05	.78	.07	.02	.83	T	.33	.08	.13	.30	.67	.12	.08	3.96	.09	2.59	T	T		.85	1.95	1.00	.31	.54	.67	.12	.90	.01	

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## DAILY TEMPERATURES

HAWAII AND PACIFIC  
JULY 1977

STATION		DAY OF MONTH																															AVERAGE
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
HAWAII																																	
ISLAND OF KAUAI																																	
KANALOHULUHULU 1075	MAX MIN	72 48	74 49	70 54	71 58	73 58	72 55	72 57	71 56	71 57	74 54	74 58	72 56	71 58	75 54	77 55	77 55	75 57	71 57	72 56	73 55	74 54	72 47	75 45	73 54	71 53	73 54	74 51	74 57	76 58	75 56	72 58	73.1 54.6
KILAUEA POINT 1133	MAX MIN	85 77	85 76	88 76	86 75	85 75	84 75	84 75	83 72	84 72	83 73	81 72	82 71	80 71	85 74	84 73	84 70	84 71	88 72	85 71	87 73	85 73	85 73	86 72	86 73	86 73	83 74	85 71	86 74	85 73	85 73	84.5 73.1	
KOLOA LN (MAK) 940.1	MAX MIN	85 70	85 76	85 74	85 70	84 70	86 74	84 75	82 72	84 73	85 74	84 72		84 72	84 75	85 74	85 73	85 71	85 70	85 71	86 70	85 74	86 75	86 73	85 73	85 73	86 75	85 75	86 74	85 74	85.0 72.8		
LIHUE WSO 1020.1 AP	MAX MIN	83 70	83 77	83 74	83 72	85 75	83 74	84 71	82 71	83 72	81 73	83 74	82 74	84 75	85 75	83 73	83 73	83 72	83 73	83 72	83 73	83 75	83 75	84 75	84 75	85 75	84 77	84 75	84 75	84 75	83.4 73.7		
MANA 1026	MAX MIN	89 65	85 66	85 64	86 67	89 69	87 69	90 65	89 68	90 68	89 65	89 69	86 66	87 69	87 66	88 67	87 70	86 68	89 65	88 63	89 66	88 65	89 65		88 66	88 66	88 64	88 70	89 68	90 69	86 67	87.9 66.8	
NIU RIDGE 1035	MAX MIN	84 63			84 62	83 66	87 61	87 63			88 61	84 61	85 62	86 61	87 62			88 62	87 62	87 61	88 62	88 61			88 61	88 61	88 61	88 63	88 63				
WAIAMI LOWER 1054	MAX MIN	76 66	75 67	75 66	76 66	75 66	75 66	74 65	74 65	75 66	77 66	74 65	76 67	74 67	75 66	76 67	75 66	77 66	74 66	76 62	76 62	76 64	76 65	76 66	76 64	77 67	76 67	76 67	75 66	73 67	75 66	73 67	75.2 65.8
ISLAND OF OAHU																																	
ALOHA STADIUM-HALAWA	MAX MIN	85 67			86 71	83 72	84 73	86 70			85 69	83 71	82 72	82 69	83 70			84 69	83 69	83 69	84 70	83 69			86 68	86 69	85 71	86 71	86 71				
B Y U LAIE 903.1	MAX MIN	84 72			83 73	83 70	82 71	83 71			84 72	83 71	82 72	85 73	84 71			85 72	83 71	84 73	83 72	84 73	85 73	84 72	85 72	86 72	85 72	85 72	85 72				83.8 71.8
EWA PLANTATION 741	MAX MIN	87 65	87 66	87 72	86 71	87 67	87 70	86 72	86 70		87 69	85 71	86 71	87 68	88 68			87 71	87 68	87 67	88 68	87 65			88 63	89 67	88 68	89 72	88 71				87.1 68.7
HONOLULU WSO 703 AP	MAX MIN	89 69	88 75	88 76	87 75	87 75	86 74	87 75	87 74	87 75	88 73	87 75	87 74	87 73	87 76	87 76	87 75	88 74	88 74	89 74	88 71	88 72	89 74	88 72	88 73	88 73	88 76	88 75	88 74	88 76	87.7 74.0		
KANEHE MAUKA 781	MAX MIN	83 70	81 70	81 73	80 72	81 73	79 72	80 72	82 72	81 72	80 72	78 72	79 72	80 71	80 70	81 73	80 72	82 72	78 71	81 71	83 72	80 71	83 72	83 71	83 72	83 70	83 71	82 72	82 70	82 70	80 71	80 74	81.1 71.7
MANDA LYON ARBORETUM	MAX MIN	80 68	81 69	79 69	76 68	75 68	74 69	78 69	79 69	77 67	77 66	78 65	75 67	77 67	80 68	79 68	75 68	79 67	76 67	80 68	81 68	81 66	80 67	81 66	81 67	82 68	81 67	78 67	82 69	81 70	78 69	77 69	78.6 67.8
OPAEULA 870	MAX MIN	80 63	80 63	80 66	78 66	80 64	80 64	80 66	80 64	80 64	80 66	80 65	80 64	80 66	79 65	79 65	80 65	80 67	80 65	80 65	80 64	81 63	80 66	80 64	80 64	80 67	80 68	80 69	80 68	80 66	79.9 65.1		
WAIALEE 896.3	MAX MIN	84 71	84 71	84 75	84 70	83 71	81 72	82 71	83 69	83 71	82 70	81 71	82 71	82 71	82 72	82 73	82 71	83 73	84 72	82 72	82 72	82 72	83 72	83 72	83 72	83 72	83 72	84 72	84 73	84 75	82.8 71.4		
WAIALUA 847	MAX MIN	84 61	84 66	85 62	86 64	83 70	83 65	83 67	84 66	84 68	83 66	82 66	83 68	83 69	85 64	84 66	82 66	85 69	84 66	85 66	85 64	85 62	85 63	85 61	85 62	85 63	85 64	86 62	85 65	86 69	87 71	84.4 65.2	
WAIKIKI 717.2	MAX MIN	87 65	89 71	87 70	86 72	87 71	86 71	85 72	85 71	85 70	85 72	86 71	86 70	85 71	85 70	86 72	85 71	86 72	85 71	85 69	86 69	86 69	86 69	86 69	87 70	87 71	87 71	87 71	87 71	87 71	86.1 70.3		
WAIMANALO EXP FARM	MAX MIN	83 72	84 73	83 72	83 73	83 73	82 70	81 72	84 73	83 73	83 73	80 72	82 72	83 71	82 70	83 71	83 72	84 73	81 72	83 73	84 73	83 73	83 73	84 73	84 73	84 73	84 74	85 73	85 73	84 73	84 71	83.1 72.4	
ISLAND OF MOLOKAI																																	
MOLOKAI AP 524	MAX MIN	84 72	86 68	88 72	85 70	85 70	84 71	84 71	85 71	85 70	85 69	85 70	85 70	85 69	85 72	87 71	85 70	85 70	87 72	85 72	85 70	86 74	88 66	87 68	89 68	87 72	86 69	88 69	86 68	87 68	86 73	85.8 70.1	
ISLAND OF LANAI																																	
LANAI AIRPORT 656	MAX MIN																																
LANAI CITY 672	MAX MIN																																
ISLAND OF MAUI																																	
HALEAKALA R5 338	MAX MIN	65 47	67 54	75 55	72 52	73 47	71 48	66 49	69 51	67 46	69 45	64 51	66 48	64 49	72 47	72 57	72 57	71 50	68 49	70 45	67 47	67 49	69 47	69 48	69 45	64 40	63 42	64 51	67 52	68 45	70 46	68.4 48.5	
HANA AIRPORT 355	MAX MIN	82 69	83 72	82 68	83 72	82 70	83 72	83 70	83 72	83 72	83 72	82 70	81 71	80 69	82 71	82 70	83 70	80 69	80 69	83 71	83 69	82 69	83 71	83 69	83 70	83 70	83 72	83 73	84 71	83 72	83 70	82.4 70.7	
KAAHAPALI AP 453.1	MAX MIN	83 65	82 68	83 69	85 70	81 66	82 69	83 70	83 70	83 70	84 65	83 69	83 68	85 68	83 84	85 84	85 84	82 85	85 85	84 85	83 84	85 85	85 84	85 85	85 84	85 85	85 84	85 85	87 87	84 84	83.9 67.8		
KAHULUI WSO 398 AP	MAX MIN	88 66	87 66	88 72	85 73	84 71	86 73	85 73	85 72	85 72	86 66	85 72	84 72	86 73	86 72	85 74	84 73	83 72	86 67	85 71	85 71	85 66	85 66	84 66	84 66	84 66	84 66	85 72	86 73	86 73	85.4 70.5		
KAILUA 446	MAX MIN	78 65			79 65	76 66	77 67	78 69			77 68	77 68	76 68	77 69	76 69	77 68	77 68	75 67	78 67	79 67	78 65			79 67	80 67	79 68	79 68	79 68	78 68				
KEAWAKAPU BEACH 260.2	MAX MIN	87 65	88 70	89 67	92 68	90 65	88 65	89 64	90 65	91 66	90 66	90 69	90 69	91 69	90 68	89 66	89 67	92 62	89 66	89 67	92 65	87 65	89 65	86 64	88 65	86 65	87 65	85 64	87 69	89 68	88 68	88.9 66.5	
KULA SANATORIUM 267	MAX MIN	70 58	74 58	75 57	75 58	70 59	72 61	74 60	77 61	76 60	76 61	75 62	74 63	75 63	75 64	74 61	73 60	74 63	75 61	75 61	75 62	74 58	72 57	75 58	75 60	76 61	73 59	74 60	78 62	77 61	76 62	74.4 60.0	

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# DAILY TEMPERATURES

HAWAII AND PACIFIC  
JULY 1977

STATION		DAY OF MONTH																															AVERAGE
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
HAWAII																																	
LAHAINA 361	MAX MIN	88 68	88 69	88 68	89 69	88 68	89 68	86 69	89 67	89 67	88 66	88 68	88 67	88 70	87 66	88 68	89 69	89 68	88 68	88 68	88 67	88 68	88 66	89 67	88 68	87 68	87 68	89 71	89 72	88 71	89 71	88.2 68.3	
WAILUKU 386	MAX MIN	81 72			83 70	82 72	81 70	82 72			82 70	82 71	80 71	80 72	80 72		82 71	79 71	81 72	81 72		82 72			83 71	81 71	81 72	81 72	84 72				
ISLAND OF HAWAII																																	
HAWAII VOLCNS NP HO 54	MAX MIN	73 53	72 55	72 55	65 55	63 55	67 55	71 56	69 56	70 53	68 53	65 57	69 57	69 55	74 54	74 57	72 58	69 57	70 70	71 70	72 70	69 69	72 66	72 66		74 68	70 68	76 73	69 71	67 70	70 71	70.0	
HILO WSO 87 AP	MAX MIN	85 70	89 68	85 70	82 69	84 67	88 69	85 70	82 70	85 69	82 68	85 69	81 71	85 71	80 68	86 68	84 69	85 72	83 71	85 70	84 70	84 70	83 69	86 66	86 68	85 68	85 68	87 69	86 73	85 71	86 70	84 71	84.6 69.5
KAINALIU 73.2	MAX MIN	76 60	75 62	76 64	79 64	74 64	76 62	78 63	78 62	78 62	80 60	79 62	77 61	78 62	80 65	77 65	80 65	81 65	80 64	77 63	77 62	77 62	77 63	76 64	80 59	80 60	80 61	79 63	81 64	80 65	73 62	77 62	78.0 62.6
KAMUELA 192.2	MAX MIN	74 61			72 59	74 61	72 61	71 60			73 59	72 62	73 62	75 62	74 62		71 61	72 59	72 62	72 61		73 61			74 60	75 60	74 60	76 61	73 63				
KAPOHO BEACH 93.11	MAX MIN	88 72	89 74	89 67	89 68	84 68	88 70	88 69	85 71	84 69	86 67	82 70	84 69	82 71	86 69	83 70	85 69	83 71	84 70	85 70	85 71	86 71	87 68	87 68	90 68	89 68	89 70	86 72	86 73	89 74	87 74	86.1 70.1	
KEAAU 92	MAX MIN	82 68	83 68	84 68	81 67	79 67	80 67	83 67	80 67	78 67	80 65	79 67	82 68	76 68	81 67	78 69	81 67	80 68	80 68	80 68	81 68	80 68	80 65	82 66	83 66	81 67	81 66	83 66	84 69	80 69	82 68	80.8 67.3	
KEALAKEKUA 2 28.7	MAX MIN	76 61			80 65	80 65	76 64	78 65	78 66		80 63	80 62	79 67	78 65	80 64		84 65	80 65	80 65	78 65	78 64	79 65	79 65		80 61	79 62	81 63	81 64	80 67	77 67	78 63	79.0 64.3	
KOHALA MISSION 175.1	MAX MIN	81 66	82 71	80 71	81 67	78 67	80 68	80 67	79 67	78 68	79 67	77 68	80 68	77 68	79 68	79 68	78 69	77 68	78 67	80 67	80 67	80 68	79 67	80 68	80 68	81 67	80 68	80 69	80 70	80 69	79 68	79.4 68.1	
KONA (KAILUA) 68.3	MAX MIN	83 72			84 69	82 68	85 72	83 71			85 69	84 72	83 71	84 72	85 71		80 73	85 72	85 72	86 69	86 69		83 71		86 71	86 69	85 71	88 73	85 75				
KULANI CAMP 79	MAX MIN	67 45	68 58	70 51	71 51		62 46	65 56	64 53	65 50	65 47	64 52	64 52	65 50	65 45	67 45	72 47	67 47	67 51	63 54	64 58	64 49	63 46	66 43	68 42	66 50	66 51	66 43	68 52	65 54	64 50	58 48	65.7 49.5
MAUNA LOA SLOPE 085	MAX MIN	51 34	62 39	62 43	63 43	63 43	57 42	57 41	59 37	57 37	51 39	55 35	52 38	55 37	53 39	55 38	55 40	58 42	57 42	57 43	57 41	57 38	56 34	57 35	55 37	52 37	55 41	57 40	59 40	61 41	58 43	56.6 39.5	
MOUNTAIN VIEW 91	MAX MIN	78 64	79 62	80 62	80 62	75 63	81 64	77 64	76 62		77 61	77 61	80 65	72 65	76 62	78 63	79 64	75 64	75 64	78 64	77 64	77 64	75 64	78 61	81 59	80 63	78 61	82 63	79 64	75 64	79 64	77.9 62.8	
NAALEHU 14	MAX MIN	77 65			81 66	80 69	81 69	80 69			81 64	80 68	77 68	79 66	80 66		82 66	81 62	81 63	81 66		77 66			81 64	81 67	80 67	81 68	82 70				
OOKAIA 223	MAX MIN	82 69	80 69	81 70	81 69	78 68	79 69	81 69	80 67	78 67	80 68	78 69	75 69	77 68	80 68		79 69	82 69	78 69	80 68	79 68	80 68	79 68	80 68	79 68	80 68	80 69	80 70	81 69	79 68	80 68	79.5 68.5	
OPIHIHALE 2 24.1	MAX MIN	79 65	77 64	78 62	78 64	79 59	82 62	82 63	81 60	83 59	82 62	80 62	81 62	84 62	81 62	82 63	84 64	81 64	79 62	79 62	78 64	79 62	80 62	82 60	82 61	81 60	83 65	84 65	79 65	83 61	80 61	80.8 61.9	
PAHALA 21	MAX MIN	79 63			81 62	81 65	82 65	83 66			84 64	83 66	80 64	81 62	83 64		84 63	82 63	83 62	82 65		80 64			84 60	83 68	81 60	87 64	82 66				
PUUKOHOLA HEIAU 98.1	MAX MIN	88 69	86 70	89 70	91 69	91 68	89 72	90 71	91 68	94 69	92 70	92 70	89 71	90 71	89 70		90 71	89 75	89 72	80 70	89 71	89 71	92 69	92 69	89 69	89 69	89 70		90 68	88 71	90 70	91 70	90.0 70.1
SOUTH KONA 2-31	MAX MIN												76 58	81 57	84 59	79 61	78 64	72 57	80 59	80 60	78 60	78 62	80 55	78 62	85 59	82 59	78 56	85 62	83 61	77 58	81 57		
UPOLU POINT USCG 159.2	MAX MIN	85 78	86 70	85 69	85 73	84 69	85 68	85 71	85 70	85 67	84 74	84 68	80 67	82 74	86 76	83 68	83 74	83 70	82 69	81 77	84 74	82 69	82 76	83 69	83 68	83 68	84 68	84 74	84 66	84 66	85 74	83.7 70.7	

SEE REFERENCE NOTES FOLLOWING STATION INDEX

# DAILY TEMPERATURES

HAWAII AND PACIFIC  
JULY 1977

STATION		DAY OF MONTH																															AVERAGE	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
PACIFIC																																		
EAST OF 180TH MERIDIAN																																		
CANTON ISLAND	MAX MIN	89 79	90 78			90 82	89 80	90 81	90 80		90 83	89 81	90 78	89 79	90 81	90 79		90 79	87 82	88 82	90 81		89 82	90 82		91 83	89 82	84 78	88 78	90 81	89 82		89.2 80.5	
JOHNSTON WSO AP	MAX MIN	84 78	84 73	84 76	85 76	84 73	84 76	84 76	84 77	84 79	84 78	84 76	84 73	84 78	84 76	84 79	83 76	85 78	84 73	84 76	84 78	84 75	84 78	84 79	84 77	83 75	84 79	85 78	84 75	84 78	86 79		84.1 76.6	
LEONE	MAX MIN	84 76	85 76	84 76	86 78	84 76	84 76	80 76	82 75	82 78	81 76	85 79	83 79	88 79	89 81	82 77		79 75	83 75	86 76	87 78	87 79	87 79	86 79	85 78	82 77	84 69	85 78	85 77	86 78	85 81		84.1 77.3	
FRENCH FRIGATE SHOALS	MAX MIN	84 73	88 70	88 69	88 74	86 72	88 71	88 71	83 73	83 71	87 74	85 73	86 74	83 72	86 74	85 72	84 74	83 71	86 76	85 75	85 75	85 72	84 76	84 74	84 73	84 75	85 75	85 75	86 75	86 76	84 74	83 73		85.3 73.2
MIDWAY SAND ISLAND	MAX MIN	84 74	84 77	84 76	84 75	83 76	83 75	83 75	83 71	84 74	83 76	83 77	84 71	84 75	84 71	81 66	78 63	81 69	83 75	83 74	81 72	82 70	80 69	79 68	82 68	81 70	81 70	79 70	80 70	79 70	81 73		82.1 72.2	
PAGO PAGO WSO AP	MAX MIN	84 73	84 76	83 76	83 78	84 78	82 78	81 75	81 75	84 77	80 75	84 78	83 77	85 76	87 75	84 73	79 75	78 75	81 75	80 74	83 77	84 78	83 72	83 77	84 78	83 76	82 76	82 64	82 75	83 76	84 75	85 76		82.7 75.5
WESTERN PACIFIC ISL. NORTH OF 12 N																																		
ANDERSEN AFB GUAM	MAX MIN	83 78	83 76	83 77	84 78	84 78	85 78	85 76	84 76	85 76	84 79	85 78	85 78	85 79	84 76	86 74	85 75	85 77	84 78	85 79	85 75	83 77	83 76	84 79	83 74	84 77	82 76	83 75	84 72	85 78	81 76	84 79		83.9 77.0
CLARK AFB LUZON	MAX MIN	91 73	86 73	84 73	88 75	91 75	90 73	91 73	90 73	88 75	88 73	91 73	90 73	86 75	90 77	91 77	90 75	82 75	79 73	86 73	88 75	88 73	86 72	84 72	81 73	82 73	82 72	81 72	84 72	81 72	82 72		86.3 73.6	
GUAM NAS	MAX MIN	88 79	89 79	87 78	88 79	89 78	88 78	88 78	87 79	88 78	89 79	89 80	86 79	88 73	88 76	88 79	88 76	89 75	88 79	89 80	84 79	89 79	86 80	89 76	87 79	88 79	86 79	88 79	89 79	85 79	88 79		87.8 78.5	
GUAM WSMO	MAX MIN	87 73	88 72	87 70	87 72	87 75	87 73	86 75	87 75	86 74	88 73	88 75	87 75	88 75	88 71	87 72	86 72	87 72	86 73	88 75	81 72	87 72	88 75	85 73	87 75	88 74	85 75	86 72	87 74	84 74	88 73		86.7 73.3	
SAIPAN LORAN	MAX MIN																																	
WAKE WSO AP	MAX MIN	87 74	89 74	89 77	90 77	89 73	90 76	89 75	89 76	90 78	89 79	90 78	89 75	88 78	89 78	89 77	89 76	90 77	89 78	89 77	90 77	89 76	90 77	90 73	88 76	90 78	90 76	88 77	91 79	90 77	90 77	88 75		89.2 76.4
CAROLINE AND MARSHALL ISLANDS																																		
ENIWETAK	MAX MIN	86 80	86 80	87 81	84 80	87 81	85 81	86 78	85 81	85 81	87 82	86 81	86 82	85 82	85 81	86 82	82 79	87 80	87 82	85 80	86 81	86 80	86 81	86 80	87 81	86 81	87 81	87 82	86 81	87 82	87 79		85.8 80.6	
FALALOP I. ULITHI	MAX MIN	87 82	85 79	83 80		80 78	81 78	84 80	85 80	85 80	85 81	84 79		84 70	85 80	83 79	85 75	80 73	86 73	85 72	86 72	86 80	86 80	86 70	86 70	82 70	82 70	85 72	85 73					84.2 76.5
KAPINGAMARANGI ATOLL	MAX MIN	90 75	86 74	85 73	91 75	91 73	90 73	90 72	91 74	91 75	90 75	89 74	90 75	90 72	91 75	90 74		88 78	89 74	86 75	89 75	88 76	88 74	88 72	88 74	86 74	85 74	89 75	87 74	89 76	85 72		88.6 74.3	
KOROR WSO	MAX MIN	88 75	87 76	87 77	81 74	84 74	87 74	87 77	84 75	89 76	89 77	81 74	88 75	89 77	87 75	86 75	86 75	84 75	83 75	87 76	89 76	89 78	85 76	89 76	90 76	90 76	87 76	87 75	86 75	83 73	89 73		86.6 75.5	
KWAJALEIN MISSILE RGN	MAX MIN	87 76	87 75	86 78	84 75	87 79	85 75	87 78	86 74	86 76	86 75	87 78	87 75	84 79	86 77	86 78	87 77	86 78	88 78	87 76	84 76	87 76	84 77	88 78	87 74	88 79	83 80	87 81	88 80	86 76		86.3 77.2		
LELE I. KUSAIE	MAX MIN																																	
MAJURO WSO AP	MAX MIN	86 76	85 75	87 74	87 75	87 75	87 74	85 75	84 75	85 74	86 73	83 74	86 76	86 77	86 76	87 78	87 76	86 75	87 76	87 75	85 77	88 76	88 77	86 76	87 75	86 77	85 75	87 78	87 78	88 76		86.1 75.7		
METALANIM	MAX MIN	86 73	84 73	85 75	84 72	86 77	84 72	87 73	84 73	82 73	86 73	84 75	86 74	87 74	85 76	81 76	86 72	87 72	85 75	87 76	88 79	87 76	88 73	86 73	85 76	88 73	87 76	85 73	88 79	87 80	87 83		85.4 75.3	
PONAPE WSO	MAX MIN	89 72	90 74	89 73	88 72	90 78	88 72	87 72	88 73	85 73	89 74	89 75	89 75	87 75	87 73	85 74	90 72	90 72	90 74	91 76	90 74	90 74	83 75	90 76	85 73	90 73	88 73	89 75	89 73	89 74	90 75		88.5 73.8	
SATAWAN ATOLL	MAX MIN																																	
TRUK. MOEN I. WSO AP	MAX MIN	89 76	89 75	86 75	84 75	89 76	89 77	89 76	88 73	86 75	87 75	89 76	88 77	83 74	83 73	88 77	88 77	87 75	90 76	88 77	90 77	90 77	89 75	86 76	88 76	88 73	89 76	89 76	85 76	89 74	89 76	89 79		87.8 75.6
WOLEAI ATOLL	MAX MIN	87 79		85 75		87 72	88 74	86 72	86 75		87 78	85 72	88 76	88 72		88 72	89 75	86 73	86 74	89 77	90 77	82 72	88 72	89 73	86 71	88 71	88 75	86 74	86 75	88 73	87 74		87.1 74.1	
YAP WSO AP	MAX MIN	87 74	87 74	87 74	88 75	85 72	88 73	89 75	86 74	88 73	88 74	90 76	86 75	86 75	87 74	87 70	88 78	83 71	84 73	83 72	88 72	88 74	88 71	87 72	87 72	83 74	87 72	84 72	88 75	87 72	85 76	87 76		86.6 73.5

SEE REFERENCE NOTES FOLLOWING STATION INDEX

# EVAPORATION AND WIND

HAWAII AND PACIFIC  
JULY 1977

STATION	DAY OF MONTH																															TOTAL OR AVG.	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
HAWAII																																	
ISLAND OF KAUAI																																	
LIHUE WSO 1020.1 AP	EVAP	.36	.38	.39	.31	.40	.42	.36	.46	.53	.42	.28	.31	.40	.46	.08	.55	.28	■	.61	.42	.33	.33	.40	.39	.41	.40	.45	.38	.23	.42	.46	11.62
	WIND	145	174	216	242	269	269	275	283	276	239	209	243	230	241	212	202	98	■	580	187	168	170	166	165	163	184	226	190	218	220	292	6752
	MAX	90	90	90	90	90	90	90	90	87	87	87	85	86	87	84	88	87	-	88	87	87	88	89	89	91	90	88	88	86	88	88	88.2
	MIN	68	71	67	66	67	67	69	68	69	69	69	70	70	70	68	69	70	-	67	68	68	67	68	68	68	68	68	69	71	72	70	68.6
ISLAND OF OAHU																																	
HONOLULU OBSERV 702.2	EVAP	.30	.30	.30	.36	.33	.45	.35	.45	.36	.45	.35	.42	.27	.45	.35	.45	.36	.45	.45	.39	.39	.45	.30	.28	.30	.37	.44	.30	.34	.31	.50	11.57
	WIND	29	27	42	52	47	49	60	62	49	52	37	42	31	30	39	37	33	42	43	32	34	28	23	28	27	29	34	34	41	38	59	1210
	MAX	95	88	91	93	94	89	94	94	92	91	92	92	91	91	90	96	91	94	93	95	94	95	92	92	96	92	95	94	97	92	95	92.9
	MIN	68	71	70	69	69	72	69	69	68	68	70	70	71	69	69	70	71	70	68	67	68	68	67	67	68	69	69	70	71	69	68	69.1

SEE REFERENCE NOTES FOLLOWING STATION INDEX



# EVAPORATION AND WIND

HAWAII AND PACIFIC  
JULY 1977

STATION	DAY OF MONTH																															TOTAL OR AVG.	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
PACIFIC																																	
• • • EAST OF 180TH MERIDIAN																																	
JOHNSTON WSO AP	EVAP	.43	.40	.40	.34	.44	.37	.42	.38	.41	.50	.40	.38	.37	.32	.35	.22	.32	.46	.37	.37	.34	.23	.37	.40	.40	.35	.41	.37	.39	.39	.39	11.69
	WIND	161	219	256	239	225	213	220	271	273	267	183	245	249	194	252	207	243	250	235	193	194	176	188	239	200	257	223	185	216	243	193	6909
	MAX	91	88	87	90	89	89	89	87	93	87	89	88	88	90	88	87	91	88	90	89	90	91	91	89	89	87	90	90	90	92	92	89.3
	MIN	73	73	73	73	73	71	71	73	73	73	72	73	72	72	73	74	74	74	73	73	73	73	72	74	72	74	73	73	73	73	73	72.9
• • • WESTERN PACIFIC ISL. NORTH OF 12 N																																	
GUAM WSMO	EVAP	.14	.30	.41	.33	.35	.31	.20	.27	.25	.27	.29	.31	.32	.27	.24	.24	.32	.32	.26	.22	.33	.15	.21	.23	.19	.18	.17	.12	.24	.15	.24	7.83
	WIND	89	63	86	94	106	84	73	114	132	108	120	120	145	136	143	164	143	116	118	102	36	67	35	172	35	107	77	70	83	55	63	3056
	MAX	92	97	95	94	91	93	93	94	90	89	93	93	92	91	91	92	90	94	92	95	89	92	94	94	90	93	90	94	95	89	95	92.5
	MIN	73	73	73	73	74	74	74	72	72	72	72	72	70	73	73	73	73	73	74	75	73	72	75	74	73	74	76	73	75	74	73	73.2

SEE REFERENCE NOTES FOLLOWING STATION INDEX

## STATION INDEX

HAWAII AND PACIFIC  
JULY 1977

STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES				OBSERVER
								TEMP.	PRECIP.	EVAP.	SPECIAL (SEE NOTES)	
HAWAII												
ISLAND OF KAUAI												
ALEXANDER RESV. 983	0140	02	KOLOA	2	21 57	159 32	1610					MCBRYOE SUGAR CO.
ANAHOLA 1114	A 0145	01	KAWAIIHAU	1	22 08	159 18	180		7A			LIHUE PLANTATION CO
BRYOESWOOD STA 985	A 0240	02	KOLOA	2	21 56	159 32	720		7A			MC BRYOE SUG CO LTO
EAST LAWA 934	A 0456	02	KOLOA	2	21 55	159 30	440		7A			MC BRYOE SUG CO LTO
ELEELE 927	A 0470	02	KOLOA	2	21 54	159 35	150		6A			MC BRYOE SUG CO LTO
HALAULA 1110	A 0935	01	KAWAIIHAU	1	22 07	159 19	253		7A			LIHUE PLTN CO LTO
HALENANAOH 1006	A 1038	02	LIHUE	2	21 58	159 26	490		8A			LIHUE PLANTATION CO
HANAHANAPUNI 1055.2	1140	02	KAUAI	2	22 03	159 25	600					LIHUE PLANTATION CO LTO
HANAIEI TUNNEL 1053	A 1170	01	KAWAIIHAU	1	22 05	159 28	1218				5	LIHUE PLTN CO LTO
HUKIPO 945	2161	03	WAIIMEA	3	21 59	159 41	800		8A			KEKAHA SUGAR CO LTO
ILIILIUULA INTAKE 1050	A 2222	02	LIHUE	2	22 02	159 28	1050		VAR			LIHUE PLTN CO LTO
INTAKE WAINIHA PC 1086A	2227	01	HANAIEI	1	22 09	159 34	690		WI			MC BRYOE SUG CO LTO
KANALOHULUHULU 1075	3099	03	WAIIMEA	3	22 08	159 40	3600	7A	7A			STATE DIVISION OF PARKS
KANEHA RESERVOIR 1092	A 3104	01	KAWAIIHAU	1	22 08	159 23	830		7A			LIHUE PLANTATION
KAPAA STABLES 1104	A 3159	01	KAWAIIHAU	1	22 05	159 20	175		7A			LIHUE PLTN CO LTO
KEALIA 1112	A 3982	01	KAWAIIHAU	1	22 06	159 19	9		7A			LIHUE PLTN CO LTO
KEKAHA 944	4272	03	WAIIMEA	3	21 58	159 43	9		8A			KEKAHA SUGAR CO LTO
KILAUEA 1134	A 4561	01	HANAIEI	1	22 13	159 25	320		7A			NICK RAPOZO
KILAUEA POINT 1133	4568	01	HANAIEI	1	22 14	159 24	180	8A	8A			MELVALEIGH SEILLEMAKER
KOLO 1033	4735	03	WAIIMEA	3	22 04	159 46	36		7A			KEKAHA SUGAR CO LTO
KOLOA 936	A 4742	02	KOLOA	2	21 55	159 28	240		8A			MCBRYOE SUGAR CO
KOLOA LN (MAK) 940.1	4748	01	KAUAI	2	21 52	159 27	52	7A	7A			AUSCG LORAN STATION
KOLOA MAUKA 994	A 4750	02	KOLOA	2	21 57	159 29	640		7A			MCBRYOE SUGAR COMPANY
KUKUIULA 935	A 4950	02	KOLOA	2	21 54	159 30	100		6A			MC BRYOE SUG CO LTO
LIHUE VARIETY ST 10621A	5560	02	LIHUE	2	22 01	159 23	380		7A			LIHUE PLANTATION CO LTO
LIHUE 1020	A 5575	02	LIHUE	2	21 59	159 22	207		7A			LIHUE PLTN CO LTO
LIHUE W50 1020.1 AP	R 5580	02	LIHUE	2	21 59	159 21	103	MIO	MIO	MIOC	J	NATL WEATHER SERVICE
MAKAWELL 965	A 5864	03	WAIIMEA	3	21 55	159 38	140		7A			OLOKELE SUGAR CO
MANA 1026	6082	03	WAIIMEA	3	22 02	159 46	20	8A	8A			KEKAHA SUGAR CO LTO
MOHIHI UPR CROSS 1083	A 6433	01	WAIIMEA	3	22 07	159 36	3500		MIO			U S GEO SURVEY
MOLOAA 1145	A 6529	01	KAWAIIHAU	1	22 11	159 20	330		7A			THEODORE JAVELLANA JR
MOUNT WAIALEALE 1047	R 6565	03	WAIIMEA	2	22 04	159 30	5148		MIO			U. S. GEO. SURVEY
NIU RIDGE 1035	6850	03	WAIIMEA	3	22 02	159 44	1250	6A	6A			KEKAHA SUGAR CO LTO
N WAILUA DITCH 1051	A 6888	02	LIHUE	2	22 04	159 28	1110		7A			LIHUE PLTN CO LTO
N WAILUA RIVER 1055	A 6893	02	KIHUE	2	22 04	159 26	650				5	LIHUE PLTN CO LTO
PH WAINIHA 1115	8155	01	HANAIEI	1	22 12	159 34	101		6A			MC BRYOE SUG CO LTO
PRINCEVILLE RANCH 1117	8165	01	HANAIEI	1	22 13	159 29	295		9A			PRINCEVILLE RANCH INC
PUEHU RIDGE 1040	8205	03	WAIIMEA	3	22 01	159 42	1660		8A			KEKAHA SUGAR CO LTO
PUHI 1013	A 8217	02	LIHUE	2	21 58	159 24	329		8A			LIHUE PLANTATION CO
STABLE CAMP 1055.1	8694	02	LIHUE	2	22 04	159 27	740					LIHUE PLANTATION CO LTO
WAIHAWA 930	A 8941	02	KOLOA	2	21 54	159 34	215		7A			MC BRYOE SUG CO LTO
WAIHAI LOWER 1054	8958	02	LIHUE	2	22 01	159 27	565	6A	6A			LIHUE PLTN CO LTO
WAIHAI UPPER 1052	8966	02	LIHUE	2	22 01	159 28	780		6A			LIHUE PLTN CO LTO
WAIHAWA 943	9253	03	WAIIMEA	3	21 59	159 43	10		8A			KEKAHA SUGAR CO LTO
WAILUA KAI 1065	A 9467	02	LIHUE	2	22 02	159 21	50		7A			LIHUE PLANTATION
WAIIMEA 947	9629	03	WAIIMEA	3	21 58	159 41	20		8A			KEKAHA SUGAR CO.
WEST LAWA 931	A 9955	02	KOLOA	2	21 54	159 31	210		6A			MC BRYOE SUG CO LTO
ISLAND OF OAHU												
AHUIMANU LOOP 839.12	0055	01	KOOLAUPOKO	1	21 26	157 51	320					OON MITCHELL
ALOHA STADIUM-HALAWA	0172	03	OAHU	3	21 23	157 56	40	8A	8A			ALOHA STADIUM
BERETANIA PUMPING STA	0211	02	HONOLULU	2	21 19	157 51	20		9A			BOARD OF WTR SUPPLY
B Y U LAIE 903.1	0240	01	KOOLAUPOKO	1	21 39	157 56	20	12M	12M			B Y U-HAWAII CAMPUS
CAMPBELL INO PK 702.5	0248	02	OAHU	3	21 19	158 07	10		8A			CHEVRON U S A INC
CAMP 84 807	A 0300	03	EWA	3	21 26	158 04	760		6A			OEL MONTE CORPORATION
COCONUT ISLAND 840.1	0350	01	KOOLAUPOKO	1	21 26	157 47	15		8A			H INST MARINE BIOLOGY
OWSETT HIGHLO5 780.8	0438	02	HONOLULU	2	21 21	157 50	565					J.L. BANNING
EWA PLANTATION 741	0507	03	EWA	3	21 21	158 02	5	9A	7A			OAHU SUGAR COMPANY
HALAWA SHAFT 771.2	0964	02	HONOLULU	2	21 23	157 54	170					BOARD OF WATER SUPPLY
HELEMANO INTAKE 881	A 1384	05	WAIALUA	5	21 33	158 00	1274		WI			WAIALUA SUGAR CO. INC.
HOKULOA 725.2	A 1540	03	EWA	3	21 24	158 06	2220					H. V. VON HOLT
HONOLULU OBSERV 702.2	1918	03	EWA	3	21 19	158 00	5		9A	9A		NATIONAL WEATHER SERV
HONOLULU W50 703 AP	1919	02	HONOLULU	2	21 20	157 55	7	MIO	MIO		J	NATL WEATHER SERVICE
KAA LAKEI 724.6	2269	02	HONOLULU	2	21 18	157 43	10					MRS. MILLIE ZAPATA
KAENA POINT 841.3	2410	04	WAIALUA	4	21 34	158 15	1240		9A			U S AIR FORCE
KAHANA 883	A 2462	01	KOOLAULOA	1	21 31	157 54	800		WI			WAIHOLE WTR CO LTO

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								TEMP.	PRECIP.	EVAP.	SPECIAL (SEE NOTES)	
ISLAND OF OAHU												
KAHUKU 912	A 2570	01	KOOLAULO	1	21 42	157 59	15				C	KIULIMA HOTEL
KAILUA FIRE STA 791.3	2683	01	KOOLAUPOKO	1	21 24	157 45	10		8A		C	KAILUA FIRE STATION
KALAMA VALLEY 724-13	2842	02	OAHU	2	21 18	157 41	75				C	GRADEN HARGER
KALIHI RES SITE 777	R 2960	02	HONOLULU	2	21 23	157 50	910		M10			BOARD OF WTR SUPPLY
KANEHOE MAUKA 781	3113	01	KOOLAUPOKO	1	21 25	157 49	325	7A	7A			STATE HOSPITAL
KAPALAMA 773	A 3268	02	HONOLULU	2	21 21	157 52	614		8A			KAMEHAMEHA SCHOOLS
KAWAIHAPAI 841	A 3734	05	WAIALUA	5	21 35	158 11	40		7A			WAIALUA SUGAR CO. INC.
KEMOO CAMP 8 855	A 4318	05	WAIALUA	5	21 33	158 05	725		7A			WAIALUA SUGAR CO. INC.
KOOLAU OAM 833	A 4766	05	WAIHAWA	5	21 30	157 58	1160		8A			C & F OFFICER HEOG
LULUKU 781.7	5655	01	KOOLAUPOKO	1	21 24	157 49	240				C	NATIONAL WEATHER SERV
MAKAHA KAI 796.1	A 5766	04	WAIANAE	4	21 28	158 13	15		7A			CLOSED 3/31/77
MAKAHA PUMP 800.2	A 5782	04	OAHU	4	21 29	158 12	400		8A		C	CAPITAL INVESTMENT CO.
MAKAKILO 730.1	5789	03	OAHU	3	21 21	158 06	300		6A			NEAL ADAMS
MANOA 712.1	6122	02	HONOLULU	2	21 19	157 49	220		7A			MRS. JOHN H. BEAUMONT
MANOA LYON ARBORETUM	6128	02	OAHU	2	21 20	157 48	500	8A	8A			LYON ARBORETUM
MANOA TUNNEL 2 716	R 6130	02	HONOLULU	2	21 20	157 48	650		M10			BOARD OF WTR SUPPLY
MAUNAWILI 787.1	6222	01	KOOLAUPOKO	1	21 21	157 46	395					EXP. STA. H.S.P.A.
MOANALUA 770	6395	02	HONOLULU	2	21 21	157 54	20		9A			JOHN A ROXBURGH
MOMILANI 835.1	6547	03	OAHU	3	21 25	157 58	325					CHESTER T KAINUMA
MOUNT KAALA 844	6553	04	WAIANAE	4	21 31	158 09	4015					FEDERAL AVIATION ADM
NUUANU RES 4 783	6928	02	HONOLULU	2	21 21	157 49	1048		M10			BOARD OF WTR SUPPLY
NUUANU RESERV 5 775	A 6933	02	HONOLULU	2	21 21	157 50	410		W1			BOARD OF WTR SUPPLY
OPAEULA 870	A 7150	05	WAIALUA	5	21 34	158 02	1060	7A	7A			WAIALUA SUGAR CO. INC.
PAIKO OR 723.4	7540	02	HONOLULU	2	21 17	157 44	10		6P			O L GRUBB
PALI GOLF COURSE 788.1	7656	01	OAHU	1	21 23	157 47	480		10A			CC DEPT PKS RECREATION
PALOLO VALLEY 718	R 7664	02	HONOLULU	2	21 20	157 46	995		M10			BOARD OF WTR SUPPLY
PAUOA FLATS 784	R 7810	02	HONOLULU	2	21 21	157 48	1640		M10			BOARD OF WTR SUPPLY
PUNALUU PUMP 905.2	8314	01	KOOLAULO	1	21 35	157 54	20				C	MRS DAVID DELAO
PUNCHBOWL CRATER 709	A 8316	02	HONOLULU	2	21 19	157 51	360		8A			NAT MEM CEMETERY
PUPUKA HEIGHTS 896.4	8342	01	WAIALUA	1	21 39	158 02	900				C	JACK N. WHEELER
PUU MANAWAHUA 725.6	8500	03	OAHU	3	21 23	158 05	2080		8A			HUGH HAMILTON
SEA LIFE PARK 724.14	8665	01	OAHU	1	21 19	157 40	40				C	SEA LIFE PARK
TANTALUS 2 780.5	8738	02	HONOLULU	2	21 20	157 50	1325		7A			R. E. WHITE
UNIV OF HAWAII 713	A 8815	02	HONOLULU	2	21 18	157 49	79		8A			DEPT OF GEOSCIENCE
UPPER WAIHAWA 874.3	8838	05	OAHU	5	21 31	158 01	1115		6A			W B RUTHERFORD
WAIHAWA OAM 863	A 8945	05	WAIHAWA	5	21 30	158 03	854		7A			WAIALUA SUGAR CO. INC.
WAIHAOLE 837	A 8964	01	KOOLAUPOKO	1	21 28	157 53	745		8A		C	WAIHAOLE WTR CO LTO
WAIALAE KAHALA 715	9185	02	HONOLULU	2	21 17	157 47	40		7A			SPENCER TINKER
WAIALEE 896.3	9190	01	KOOLAULO	1	21 41	158 02	33	8A	8A			WAIALEE LIVESK RES FARM
WAIALUA 847	A 9195	05	WAIALUA	5	21 35	158 07	32	7A	7A		C	WAIALUA SUGAR CO. INC.
WAIANAE 798.2	A 9231	04	WAIANAE	4	21 27	158 11	10		7A			BEN MAYES
WAIANAE KAWIWI 801.1	9234	04	OAHU	4	21 28	158 11	40				C	MOUNTAIN VIEW DAIRY
WAIHAWA 836	A 9261	03	EWA	3	21 28	157 56	800		M0			WAIHAOLE WTR CO LTO
WAIKANE 885	A 9340	01	KOOLAUPOKO	1	21 30	157 53	760		W1			WAIHAOLE WTR CO LTO
WAIKIKI 717.2	9397	02	HONOLULU	2	21 16	157 49	10	8A	8A			HONOLULU ZOO
WAILUPE VLY SCH 723.6	9500	02	HONOLULU	2	21 18	157 45	180					WAILUPE VALLEY SCHOOL
WAIMANALO EXP FARM	9523	01	KOOLAUPOKO	1	21 20	157 43	60	7A	7A			WAIMANALO EXP FARM
WAIMANALO NONOKI 795.2	9534	01	OAHU	1	21 20	157 43	120				C	WAIMANALO EXP FARM
WAIKANE 892	A 9593	05	WAIALUA	5	21 38	158 04	330		7A		C	WAIALUA SUGAR CO. INC.
WAIKANE 750	A 9738	03	EWA	3	21 23	158 01	59		8A			WAIHAOLE WATER COMPANY
WILHELMINA RISE 721	R 9980	02	HONOLULU	2	21 18	157 47	1100		M10			BOARD OF WTR SUPPLY
ISLAND OF MOLOKAI												
KALAUPAPA 563	A 2896	01	MOLOKAI	1	21 12	156 59	30		8A			KALAUPAPA SETTLEMENT
KAUNAKAKAI 536	3541	01	MOLOKAI	1	21 06	157 01	12		7A			MOLOKAI RANCH LTO
KAUNAKAKAI MAUKA 536.5	3547	01	MOLOKAI	1	21 06	157 01	70					MOLOKAI GENERAL HOSP.
KEONELELE PENS 551	A 4394	01	MOLOKAI	1	21 12	157 12	560		VAR			MOLOKAI RANCH. LTO.
KUALAPUU 534	A 4778	01	MOLOKAI	1	21 09	157 02	825		7A			OEL MONTE CORPORATION
MAUNALO SII	A 6190	01	MOLOKAI	1	21 08	157 13	1070		9A			MOLOKAI RANCH COMPANY
MOLOKAI AP 524	6534	01	MOLOKAI	1	21 09	157 06	450	8A	8A			ALOHA AIRLINES
PUU O HOKU RANCH 542.1	8549	01	MOLOKAI	1	21 09	156 44	700		6A			PUU O HOKU RANCH
WAIKOLU 540	A 9404	01	MOLOKAI	1	21 08	156 55	3550		W1			MOLOKAI RANCH COMPANY
ISLAND OF LANAI												
KANEPUU 690	A 3130	01	LAHAINA	1	20 52	157 00	1650		W1			U S O A
KAUMALAPAU HARBOR 658	3461	01	LAHAINA	1	20 47	157 00	30		8A		C	OOLE COMPANY
LANAI AIRPORT 656	5275	01	LAHAINA	1	20 48	156 57	1300	8A	8A			HAWAIIAN AIR
LANAI CITY 672	A 5286	01	LAHAINA	1	20 50	156 55	1620	7A	7A		C	OOLE COMPANY

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ISLAND OF LANAI												
LANAIHALE 684	A 5301	01	LAHAINA	1	20 49	156 53	3370		WI			U 5 0 A
MAHANA 694	A 5704	01	LAHAINA	1	20 52	156 55	1430		MO			U 5 0 A
MALAUER 676	A 6012	01	LAHAINA	1	20 46	156 55	1150		WI			U 5 0 A
WAIKAEKUA 685	A 9021	01	LAHAINA	1	20 47	156 52	2000		WM			KOELE COMPANY
ISLAND OF MAUI												
AUWAHI 252	A 0175	02	HANA	2	20 37	156 20	2060		VAR			ULUPALAKUA RANCH
HAELAAU 477	0790	04	LAHAINA	4	20 57	156 36	2980				5	MAUI LANO-PINEAPPLE CO
HALEAKALA 8 E 5 434	A 0995	01	MAKAWAO	1	20 51	156 18	2100		7A			U OF H AGRIC EXP STA
HALEAKALA RANCH 432	A 0999	01	MAKAWAO	1	20 50	156 19	1850		8A			HALEAKALA RANCH CO
HALEAKALA RS 338	1004	02	MAKAWAO	2	20 46	156 15	7030	8A	8A			HALEAKALA NAT PARK
HALIIMAILE 423	A 1075	01	MAKAWAO	1	20 52	156 21	1070		3A			MAUI LANO-PINEAPPLE CO
HAMAKUAPOKO 485	1086	01	MAKAWAO	1	20 55	156 21	320		5A			HAWAIIAN COM & SUG CO
HANA 354	A 1122	01	HANA	1	20 45	155 59	120		8A		C	HARRY HASEGAWA
HANA AIRPORT 355	1125	01	HANA	1	20 48	156 01	61	8A	8A			ROYAL HAWAIIAN AIRLINES
HOLUA CABIN 259.5	A 1552	02	MAKAWAO	2	20 45	156 13	6930		MO			HALEAKALA NATL PARK RGS
HONOKOHAU 480	A 1882	04	LAHAINA	4	20 58	156 36	870		MO			MAUI LANO-PINEAPPLE CO
HONOKOHAU 493	A 1887	04	LAHAINA	4	21 00	156 39	135		6A			MAUI LANO-PINEAPPLE CO
HONOLUA FLO 49 494	1914	04	LAHAINA	4	21 01	156 38	125				5	MAUI LANO-PINEAPPLE CO
HONOMANU GULCH 341	A 1935	01	MAKAWAO	1	20 47	156 14	6280		MO			HALEAKALA RANCH CO
IAO NEEOLE 387.2	2208	03	WAILUKU	3	20 53	156 33	1080				C	STATE DIVISION OF PARKS
KAAHAPALI AP 453.1	2307	04	LAHAINA	4	20 56	156 42	8	8A	8A			AMFAC PROPERTIES INC
KAHOMA INTAKE 374	A 2552	04	LAHAINA	4	20 54	156 38	2000		WI			PIONEER MILL CO LTO
KAHULUI W50 398 AP	R 2572	03	WAILUKU	3	20 54	156 26	48	MIO	MIO		C J	NATL WEATHER SERVICE
KAILIILI 436	A 2630	01	MAKAWAO	1	20 51	156 16	2520		MO			E MAUI IRR CO LTO
KAILUA 446	2679	01	MAKAWAO	1	20 54	156 13	700	7A	7A			E MAUI IRR CO LTO
KAUULA INTAKE 375	A 3433	04	LAHAINA	4	20 53	156 38	1585		WI			PIONEER MILL CO LTO
KAUPO RANCH HOUSE 259	3576	02	HANA	2	20 39	156 08	1020				C	KAUPO RANCH
KEAHUA 410	3910	03	MAKAWAO	3	20 52	156 23	480		5A			HAWAIIAN COM & SUG CO
KEANAE 346	A 4091	01	HANA	1	20 50	156 10	980		MO			E MAUI IRR CO LTO
KEAWAKAPU BEACH 260.2	4193	02	MAKAWAO	2	20 42	156 27	20	8A	8A		C	ALLEN L CORELL
KIHEI 311	4489	03	WAILUKU	3	20 47	156 27	90		7A			HAWAIIAN COM & SUG CO
KIPAHULU 258	4634	01	HANA	1	20 39	156 04	260		7A			HANA RANCH-KIPAHULU SEC
KUKUI 380	4887	04	LAHAINA	4	20 54	156 35	5788				5	MAUI LANO-PINEAPPLE CO
KULA SANATORIUM 267	5006	02	MAKAWAO	2	20 42	156 22	3004	7A	7A			KULA SANATORIUM
LAHAINA 361	5177	04	LAHAINA	4	20 53	156 41	45	7A	7A		C	PIONEER MILL CO LTO
LAUNIUPOKO INTAKE 376	A 5404	04	LAHAINA	4	20 51	156 37	1280		WI			PIONEER MILL CO LTO
LAUNIUPOKO VILLAGE 372A	5408	04	LAHAINA	4	20 51	156 39	220		7A			PIONEER MILL CO LTO
LUPI UPPER 442	A 5665	01	MAKAWAO	1	20 53	156 15	1240		MO			E MAUI IRR CO LTO
MAHINAHINA 466	A 5715	04	LAHAINA	4	20 57	156 40	715		7A			PIONEER MILL CO LTO
MOKUPEA 475	6521	04	LAHAINA	4	20 59	156 37	1290				5	MAUI LANO-PINEAPPLE CO
NAKALELE FIELO 60 497	A 6645	04	LAHAINA	4	21 02	156 36	340		VAR			MAUI LANO-PINEAPPLE CO
OLINDA 332	A 7040	01	MAKAWAO	1	20 48	156 17	4127		VAR			EAST MAUI IRRIGATION CO
OWALU 296.1	7059	04	LAHAINA	4	20 49	156 37	20		7A			PIONEER MILL CO LTO
PAAKEA 350	7194	01	HANA	1	20 49	156 07	1260		VAR		C	E MAUI IRR CO LTO
PAIA 406	7566	01	WAILUKU	1	20 55	156 23	170		6A			HAWAIIAN COM & SUG CO
PANILEIHULU 259.2	A 7674	02	HANA	2	20 41	156 08	3570		MO			KAUPO RANCH CO.
PEARHI 488.6	7952	01	MAUI	1	20 54	156 17	830		WI		C	BERNARD RUPLINGER
POHAKEA BRIDGE 307.2	A 8060	03	WAILUKU	3	20 49	156 31	167		6A			WAILUKU SUGAR CO
POLIPOLI SPRINGS 267.2A	8070	02	MAKAWAO	2	20 41	156 20	6150		VAR			STATE DIV OF FORESTRY
PUOHOKAMOA 2 343	A 8336	01	HANA	1	20 50	156 13	2980		MO			E MAUI IRR CO LTO
PUUNENE 396	8543	03	WAILUKU	3	20 53	156 27	60		7A			HAWAIIAN COM & SUG CO
PUU PAKI 352	A 8553	01	HANA	1	20 46	156 03	2160				5	EAST MAUI IRRIGATION CO
SPRECKELSVILLE 400.2	8688	03	WAILUKU	3	20 54	156 25	85		8A			HAWAIIAN COM & SUG CO
TWIN GATES 261.3	A 8742	03	MAKAWAO	3	20 46	156 23	1310		VAR			KAOHULU RANCH
UH AGRI RES CNTR 324.5	8743	02	MAUI	2	20 46	156 20	3050				C	UH MAUI AGRI RESCH CNTR
UKULELE 333	A 8744	01	MAKAWAO	1	20 48	156 15	5230		MO			HALEAKALA RANCH CO
UKUMEHAME 301	A 8750	04	LAHAINA	4	20 48	156 35	75		7A			PIONEER MILL CO LTO
ULUPALAKUA RANCH 250	8760	02	MAKAWAO	2	20 39	156 24	1900		8A		C	ULUPALAKUA RCH CO LTO
WAHIKULI 364	A 8955	04	LAHAINA	4	20 54	156 40	580		8A			PIONEER MILL CO LTO
WAIHEU CAMP 484	A 9275	03	WAILUKU	3	20 55	156 31	320		6A			WAILUKU SUGAR CO
WAIHEE VALLEY 482	A 9315	04	WAILUKU	4	20 57	156 32	300		6A			WAILUKU SUGAR CO
WAIKAMOI 449	A 9332	01	HANA	1	20 52	156 12	1200		MO			E MAUI IRR CO LTO
WAIKAMOI OAM 336	A 9335	01	MAKAWAO	1	20 49	156 14	4320		VAR		C	EAST MAUI IRRIGATION CO
WAIKAPU 390	A 9376	03	WAILUKU	3	20 51	156 31	370		6A			WAILUKU SUGAR CO
WAILUA IKI 348	A 9460	01	HANA	1	20 48	156 09	2630				5	EAST MAUI IRRIGATION CO
WAILUKU 386	A 9484	03	WAILUKU	3	20 54	156 30	180	7A	7A			WAILUKU SUGAR COMPANY

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ISLAND OF MAUI												
WAILOPAI RANCH 256	A 9765	02	HANA	2	20 38	156 12	220		0C			HALEAKALA RANCH CO
ISLAND OF HAWAII												
AHUA UMI 75	A 0040	05	N KONA	5	19 38	155 47	5220		MO			W.H. GREENWELL RANCH
CITY OF REFUGE 27.4	0344	04	S KONA	4	19 25	155 55	15		9A			NAT HISTORICAL PARK
HAUNA 214	0840	01	HAMAKUA	1	20 06	155 28	461		8A			HONOKAA SUGAR CO
HAKALAU 142	0905	02	S HILO	2	19 54	155 08	105		7A			MAUNA KEA SUGAR CO
HALEMAUMAU 52	A 1033	03	KAU	3	19 24	155 17	3648		MO			HAWAII NAT PARK
HALEPOHAKU 111	A 1065	02	HAMAKUA	2	19 46	155 28	9220		3P			MAUNA KEA OBSERVATORY
HA'S FARM 85.3	1270	02	HAWAII	2	19 40	155 06	580		8A			RICHARD HA JR
HAWAII VOLCANO NP HQ 54	1303	02	KAU	2	19 26	155 16	3971	8A	8A		C	HA VOLCANOES NAT PK HQS
HAWI 168	A 1339	01	N KOHALA	1	20 14	155 50	580		6A		C	K L 80NO
HILO COUNTRY CLUB 86.6	1487	02	HAWAII	2	19 41	155 10	1600		7A		C	REX WILLS II
HILO WSO 87 AP	R 1492	02	S HILO	2	19 43	155 04	27	MIO	MIO		C J	NATL WEATHER SERVICE
HOLUALOA 70	A 1557	04	N KONA	4	19 38	155 55	3220		MO			STATE DIV OF FORESTRY
HOLUALOA BEACH 68	A 1562	04	N KONA	4	19 37	155 59	14		7A			CAPT COOK CATTLE CO
HONANUA 27	1665	04	S KONA	4	19 27	155 53	1089		7A			SHIGETO L TANAKA
HONOHINA 137	1701	02	N HILO	2	19 56	155 09	300		7A			MAUNA KEA SUGAR CO
HONOMU MAUKA 138	1960	02	S HILO	2	19 51	155 09	1100		7A		C	MAUNA KEA SUGAR CO
HONUAULA 71	A 2047	04	N KONA	4	19 40	155 53	6250		MO			STATE DIV OF FORESTRY
HUALALAI 72	A 2151	04	N KONA	4	19 42	155 52	8190		MO			STATE DIV OF FORESTRY
HUEHUE 92.1	A 2156	04	N KONA	4	19 45	155 59	1960		6A			HUEHUE RANCH
KAAALA IKI 12	A 2249	03	KAU	3	19 08	155 34	1340		WI			KAU SUGAR COMPANY, INC
KAAWALOA 29	A 2327	04	SOUTH KONA	4	19 30	155 55	1340		8A			CAPT COOK INVESTMENT CO
KAHIAWAI MAUKA 3.8	2512	03	KAU	3	19 08	155 46	4120					RUSSELL P. SMITH
KAHUA RANCH HQRS	2600	01	HAWAII	1	20 08	155 48	3240				C	KAHUA RANCH COMPANY
KAINALIU 73.2	2751	04	N KONA	4	19 32	155 56	1500	7A	7A			KONA EXPERIMENT STA
KALAOA 69.22	2887	04	HAWAII	4	19 44	155 59	2000		8A			FLOYD W MC COY
KALAPANA 1 67.8	2894	02	S HILO	2	19 20	155 02	10		VAR			HAWAII VOLCANOES NAT PK
KAMADA 2 5	A 3048	03	KAU	3	19 02	155 40	1375		WI			PARKER RCH-KAPAPALA DIV
KAMUELA 192.2	3077	01	S KOHALA	1	20 01	155 40	2670	6A	6A			PARKER RANCH
KAPAPALA RANCH 36	A 3300	03	KAU	3	19 17	155 27	2140		6A			PARKER RCH-KAPAPALA DIV
KAPOHO BEACH 93.11	3368	02	HAWAII	1	19 30	154 49	10	8A	8A			H E MC NICHOLS
KAPOHO LANDING 93.5	A 3369	02	PUNA	2	19 30	154 52	290		VAR			DEPT OF PUBLIC WORKS
KAWAINUI LOWER 193	A 3770	01	HAMAKUA	1	20 05	155 39	1080		WI			HONOKAA SUGAR CO
KEAAU 92	3872	02	PUNA	2	19 38	155 02	285	8A	8A			PUNA SUGAR CO
KEAIIWA CAMP 22.1	3925	03	KAU	3	19 14	155 29	1700				C	KAU SUGAR COMPANY, INC
KEALAKEKUA 2 28.7	3980	04	S KONA	4	19 30	155 55	1450	8A	8A			MRS LILAH MEIER
KEANAKOLU CAMP 124.2	4098	02	HAMAKUA	2	19 55	155 21	5280				C	STATE DIV OF FORESTRY
KIOLAKAA A & F 6	A 4625	03	KAU	3	19 04	155 38	1925		MO			STATE DIV OF FORESTRY
KIPA 89.2	A 4632	02	S HILO	2	19 44	155 09	1490		WI			MAUNA KEA SUGAR CO.
KOHALA MISSION 175.1	4680	01	N KOHALA	1	20 14	155 48	537	7A	7A			K. LYMAN 80NO
KOIAWE LOWER 196	A 4685	01	HAMAKUA	1	20 05	155 38	720		WI			HONOKAA SUGAR CO
KONA (KAILUA) 68.3	A 4764	04	N KONA	4	19 39	156 00	30	8A	8A		C	STANDARO OIL CO OF CAL
KONA VILLAGE 93.8	4765	04	N KONA	4	19 50	155 59	20		8A			KONA VILLAGE RESORT HTL
KUKAIAU 222	4815	01	HAMAKUA	1	20 02	155 21	840		6A			LAUPAHOEHOE SUGAR CO
KUKUIHALE HIC 199	4928	01	HAMAKUA	1	20 07	155 35	980		6A			HONOKAA SUGAR CO
KUKUIHALE MILL 206	A 4938	01	HAMAKUA	1	20 08	155 34	300		6A			HONOKAA SUGAR CO
KULANI CAMP 79	5011	02	S HILO	2	19 33	155 18	5170	8A	8A			ST DEPT OF SOCIAL SER
KULANI MAUKA 76	A 5018	05	N HILO	5	19 35	155 27	8300		VAR			MAUNA LOA OBS.
KULANI SCHOOL SITE 78 A	5021	02	S HILO	2	19 35	155 20	5735		WI			ST DEPT OF SOCIAL SER
LALAMILLO FLD OFF 191.1	5260	01	S KOHALA	1	20 01	155 41	2615				C	STATE DEPT OF L&N RES
LANIHAU 68.2	5330	04	N KONA	4	19 40	155 58	1530		7A			KONA EXPERIMENT STATION
LAVA TREE PARK 66.1	5460	02	PUNA	2	19 29	154 54	650				C	STATE DIV OF PARKS
MAKAHALAU 103	5761	02	HAWAII	1	19 59	155 33	3820		6A			PARKER RANCH
MAUKA 2	A 6134	03	KAU	3	19 07	155 50	1760		WI			STATE DIVISION OF PARKS
MAUNA KEA OBS 111.2	6183	02	HAWAII	2	19 49	155 28	3770		7P			MAUNA KEA OBSERVATORY
MAUNA LOA SLOPE OBS	6198	05	HAMAKUA	5	19 32	155 35	1150	MIO	MIO			MAUNA LOA OBSERVATORY
MIDDLE HOLUALOA 68.1	A 6268	04	N KONA	4	19 37	155 58	500		7A			CAPT COOK CATTLE CO
MIDDLE PEN 147.1	A 6270	01	N KOHALA	1	20 06	155 50	1380		VAR			KAHUA RANCH
MOAULA 18	A 6407	03	KAU	3	19 11	155 30	600					PARKER RCH-KAPAPALA DIV
MOUNTAIN VIEW 91	6552	02	PUNA	2	19 33	155 07	1530	6A	6A			PUNA SUGAR CO
NAALEHU 14	A 6588	03	KAU	3	19 04	155 35	800	8A	8A			KAU SUGAR COMPANY
NAPOOPOO 28	A 6697	04	S KONA	4	19 28	155 55	395		7A			KONA EXPERIMENT STA
OOKALA 223	7131	02	N HILO	2	20 01	155 17	430	7A	7A			LAUPAHOEHOE SUGAR CO
OPIHIHALE 2 24.1	7166	04	S KONA	4	19 16	155 53	1270	7A	7A			MRS LORMA TRUMAN
ORCHIO LAND EST 91.5	A 7185	02	PUNA	2	19 34	155 00	445		VAR			BOARD OF WATER SUPPLY

SEE REFERENCE NOTES FOLLOWING STATION INDEX



# STATION INDEX

HAWAII AND PACIFIC  
JULY 1977

STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES				OBSERVER
								TEMP.	PRECIP.	EVAP.	SPECIAL (SEE NOTES)	
ISLAND OF HAWAII												
PAAUHAW 217	7204	01	HAMAKUA	1	20 05	155 26	415		8A		C	HONOKAA SUGAR COMPANY
PAAUILO 221	7312	01	HAMAKUA	1	20 03	155 22	800		7A			LAUPAHOEHOE SUGAR CO
PAHALA 21	A 7421	03	KAU	3	19 12	155 29	870	8A	6A			KAU SUGAR COMPANY, INC
PAHOA 65	7457	02	PUNA	2	19 30	154 57	670		6A			PUAN SUGAR COMPANY
PAKAO 37	A 7643	03	KAU	3	19 22	155 28	5000		MO			PARKER RCH-KAPAPALA DIV
PAPAIKOU 144.1	7711	02	5 HILO	2	19 47	155 06	260		7A			MAUNA KEA SUGAR CO
PAPAIKOU MAUKA 140.1	7721	02	5 HILO	2	19 47	155 08	1270		7A			MAUNA KEA SUGAR CO
PIIHONUA 89	A 8051	02	5 HILO	2	19 44	155 10	1730		MO			STATE DIV OF FORESTRY
POHAKULOA 107	A 8063	02	HAMAKUA	2	19 45	155 32	6511		WI		C	STATE DIVISION OF PARKS
PUUKOHOLA HEIAU 98.1	8422	05	HAWAII	5	20 02	155 50	140	8A	8A			SUPT PUU HEIAU-NHS
CLOSED STATIONS												
PUU LEHUA 73	A 8460	04	N KONA	4	19 34	155 49	4880		MO			W.H. GREENWELL RANCH
PUU WAAWAA 94.1	A 8555	05	N KONA	5	19 47	155 51	2520		7A		C	PUU WAAWAA RANCH CO
SADOLE ROAD 1 84	A 8590	02	5 HILO	2	19 42	155 12	2340		WM			BOARD OF WTR SUPPLY
SOUTH KONA 2.31	8650	03	HAWAII	3	19 06	155 45	2650	8A	8A			MRS CAROLYN CARLSON
SOUTH POINT CORRAL 3	A 8675	03	KAU	3	18 57	155 41	500		WI			PARKER RCH-KAPAPALA DIV
UPOLU POINT USCG 159.2	8830	01	N KOHALA	1	20 15	155 53	61	8A	2P			U S COAST GUARD
WAIKAE 500 88.2	9025	02	5 HILO	2	19 40	155 08	1050		7A			SHINICHI KANESHIRO
WAIKALOA-8015 CAS 95.8	9142	04	HAWAII	5	19 56	155 48	900		8A			BOISE CASCADES WA CONST
ISLAND OF OAHU												
MAKAHA KAI 796.1	A 5766	04	WAIANAE	4	21 28	158 13	15		7A			CLOSED 3/31/77
NEW STATIONS												
ISLAND OF KAUAI												
HANAHANAPUNI 1055.2	1140	02	KAUAI	2	22 03	159 25	600				C	LIHUE PLANTATION CO LTD
ISLAND OF HAWAII												
HA'S FARM 85.3	1270	02	HAWAII	2	19 40	155 06	580		8A			RICHARD HA JR

SEE REFERENCE NOTES FOLLOWING STATION INDEX

## STATION INDEX

HAWAII AND PACIFIC  
JULY 1977

STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES				OBSERVER
								TEMP.	PRECIP.	EVAP.	SPECIAL (SEE NOTES)	
PACIFIC												
EAST OF 180TH MERIDIAN												
CANTON ISLAND	4101	02	PHOENIX IS		2 46N	171 43W	8	9A	9A			ITT/FEDERAL ELEC CORP
FAGA ALU RESERVOIR	4135	03	AMER SAMOA		14 18S	170 42W	820		8A			PUBLIC WORKS
FALEASAO VILLAGE	4248	03	TA'U'MAN		14 14S	169 31W	16		8A			SOLOMULI MALU'IA
JOHNSTON WSO AP	R 4320	01	LINE ISLANDS		16 44N	169 31W	7	M10	M10	7A	J	NATL WEATHER SERVICE
LEONE	4397	03	TUTUILA		14 21S	170 47W	20	6P	6P			ST THERESA SCHOOL
FRENCH FRIGATE SHOALS	4401	07			23 52N	166 17W	6	8P	8A			U S COAST GUARD
MIDWAY SAND ISLAND	4490	07			28 13N	177 21W	10	M10	M10			U S NAVY
PAGO PAGO WSO AP	R 4690	03	AMER SAMOA		14 20S	170 43W	12	M10	M10		J	NATL WEATHER SERVICE
WESTERN PACIFIC ISL. NORTH OF 12 N												
ANDERSEN AFB GUAM	\$4 4025	03	MARIANNA IS		13 35N	144 55E	624	M10	M10			AIR WEATHER SERVICE
CLARK AFB LUZON	\$4 4100	06	PHILIPPINE I		15 11N	120 33E	475	M10	M10			U S AIR FORCE
GUAM NAS	# 4226	03	MARIANNA IS		13 29N	144 48E	254	M10	M10			U S NAVY
GUAM WSMO	R 4229	03	MARIANNA IS		13 33N	144 50E	361	10A	10A	10A	J	NATL WEATHER SERVICE
MANGILAO	4468	03	GUAM		13 27N	144 49E	60		7A			GUAM AGRICULTURAL STA
ROTA	4800	03	MARIANNA IS		14 08N	145 09E	47		8A			OIST ADMINISTRATOR
SAIPAN LORAN	4860	03	MARIANNA IS		15 08N	145 42E	9	10A	10A			U S C G LORAN STATION
WAKE WSO AP	R 4901	01			19 17N	166 39E	11	M10	M10		J	NATL WEATHER SERVICE
CAROLINE AND MARSHALL ISLANDS												
ANGUAR	4030	02	CAROLINE IS		6 55N	134 09E	15		8A			USCG LORAN STATION
ENIWETAK	4165	01	MARSHALL IS.		11 21N	162 21E	10	M10	M10			U S COAST GUARD
FALALOP I. ULITHI	4185	02	CAROLINE IS		10 02N	139 48E	6	10P	10P			PRINCIPAL-ULITHI H-SCH
KAPINGAMARANGI ATOLL	4325	01	PONAPE		1 05N	154 48E	10	M10	M10			ERSIN HAQUET
KOROR WSO	R 4351	02	CAROLINE IS		7 20N	134 29E	94	M10	M10		J	NATL WEATHER SERVICE
KWAJALEIN MISSILE RGN	R 4375	01	MARSHALL IS		8 44N	167 44E	7	12M	12M		J	KMR WEATHER SERVICE
LELE I. KUSAIE	4395	02	CAROLINE IS		5 20N	163 02E	7	M10	M10			JULIAN E ROBERT
MAJURO WSO AP	R 4460	02	MARSHALL IS		7 05N	171 23E	10	M10	M10		J	NATL WEATHER SERVICE
METALANIM	4482	02	PONAPE		6 51N	158 19E	30	8A	8A			REV E. A. SOUCIE
MOKIL ATOLL	4490	02	PONAPE OIST.		6 41N	159 47E	27		5P			ESHAM BEN
NGASANG, 8A8ELTHUAP	4580	01	PALAU ISLAND		7 38N	134 39E	10		8A			BETHANIA SEMINARY
PONAPE WSO	R 4751	02	CAROLINE IS		6 58N	158 13E	123	M10	M10		J	NATL WEATHER SERVICE
SATAWAN ATOLL	4814	02	CAROLINE IS		5 20N	153 44E	9	M10	M10			ANTER EKO
TRUK, MOEN I. WSO AP	R 4851	02	CAROLINE IS		7 28N	151 51E	5	M10	M10		J	NATL WEATHER SERVICE
WOLEAI ATOLL	4911	01	CAROLINE IS		7 23N	143 55E	7	M10	M10			HASUGULIMAR/HALEYEMAI
YAP WSO AP	R 4951	02	CAROLINE IS		9 29N	138 05E	44	M10	M10		J	NATL WEATHER SERVICE

SEE REFERENCE NOTES FOLLOWING STATION INDEX

Additional information regarding the climates of Hawaii and the Pacific Ocean Area may be obtained by writing to the National Climatic Center, Federal Building, Asheville, N.C. 28801, or to any National Weather Service Office near you. Additional precipitation data for Hawaii are contained in "HOURLY PRECIPITATION DATA HAWAII."

**DIMENSIONAL UNITS:** Unless otherwise indicated, dimensional units used in this bulletin are: Temperature in °F., precipitation and evaporation in inches, and wind movement in miles. In "Supplemental Data" table directions entered in figures are tens of degrees. Resultant wind is the vector sum of wind directions and speeds divided by the number of observations.

**OBSERVATION TIME:** Data in the "Monthly Extremes," "Daily Precipitation" table, "Daily Temperature" table, and "Evaporation and Wind" table are for the 24 hours ending at time of observation unless indicated otherwise by reference letters in the Station Index. The Station Index shows observation time in local standard time.

**EVAPORATION** is measured in the standard Weather Service-type pan of 4-foot diameter unless otherwise noted below in the Evaporation and Wind table. Max and Min values in the Evaporation and Wind table are extremes of temperature of water in pan as recorded during 24 hours ending at time of observation. Wind is the total wind movement in miles over the evaporation pan as determined by a continuous anemometer recorder located 6-8 inches above the pan.

**NORMALS** for all stations are climatological standard normals based on the period 1941-1970.

**STATION NAMES:** Hawaii state key numbers are included following station names in the several tables.

**LATE REPORTS AND CORRECTIONS** will be carried only in the June and December issues of this bulletin.

**INTERPOLATED VALUES** for monthly precipitation totals may be found in the annual issue of this publication.

**IN THE DATA TABLES THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING:**

- No record in the "Supplemental Data" table, "Daily Precipitation" table, "Evaporation and Wind" table, and the Station Index.
- No record in the "Monthly Summarized Data" table and the "Daily Temperature" table is indicated by no entry.
- + And also on an earlier date or dates.
- ++ Highest observed one minute windspeed. This station is not equipped with an instrument to measure fastest mile data.
- \* Amount included in following measurement, time distribution unknown.
- < Maximum and minimum temperatures are the highest and lowest hourly readings for each day.
- ‡ Extreme occurred at station with incomplete data which may have been exceeded.
- A The letter "A" shown following station name in "Monthly Summarized Data" table, "Daily Precipitation" table, and "Station Index," indicates amount carried in the "Total" column is for the period from last measurement of a preceding month through the last measurement of the current month. See "Daily Precipitation" table of this and previous bulletins for dates of measurement. Where gages are read only once monthly, measurements made on the first of a month are credited to the last day of the preceding month.
- B Adjusted to a full month.
- M One or more days of record missing; if average value is entered, less than 10 days record is missing. See "Daily Temperature" table for detailed daily record.
- R Amounts from recording gage.
- T Trace, an amount too small to measure.
- V Includes total for previous month.

**IN THE STATION INDEX THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING:**

- AR Observation made after rain.
- C In Special Column of Station Index indicates Recording Rain Gage Station. Hourly Precipitation values are processed for special purposes, and are published later in the "Hourly Precipitation Data" bulletin. If daily amounts are published in "Monthly Summarized Data" bulletin they are from a separate non-recording gage, except where indicated by reference 'R'. Such amounts may differ from amounts published from the recording gage in the "Hourly Precipitation Data" bulletin.
- J "Supplemental Data" table.
- MO Gage read once monthly; usually on the last day.
- OC Gage readings at periods varying from a few weeks to several months.
- S Storage Precipitation Station. Precipitation measurements, made at irregular intervals, are published in the December issue, or as late reports in the June issue of this publication.
- SS Observation time is near sunset.
- VAR Observation time is variable.
- WI Gage read weekly or irregularly only.
- WM Gage read weekly and last day of month.
- # Thermometers are generally exposed in a shelter located a few feet above sod-covered ground; however, this reference indicates that the thermometers are exposed in a shelter located on the roof of a building.
- \* DRAINAGE CODE: KAUAI: 1-NORTHERN 2-SOUTHEASTERN 3-SOUTHWESTERN OAHU: 1-WINDWARD KOOLAU 2-HONOLULU 3-SOUTH CENTRAL 4-WESTERN 5-NORTH CENTRAL MOLOKAI: 1-(NO INTRA-ISLAND DIVISIONS) LANAI: 1-(NO INTRA-ISLAND DIVISIONS) MAUI: 1-NORTHEASTERN 2-SOUTHERN 3-CENTRAL 4-WESTERN HAWAII: 1-NORTHERN 2-EASTERN 3-SOUTHERN 4-WESTERN 5-CENTRAL

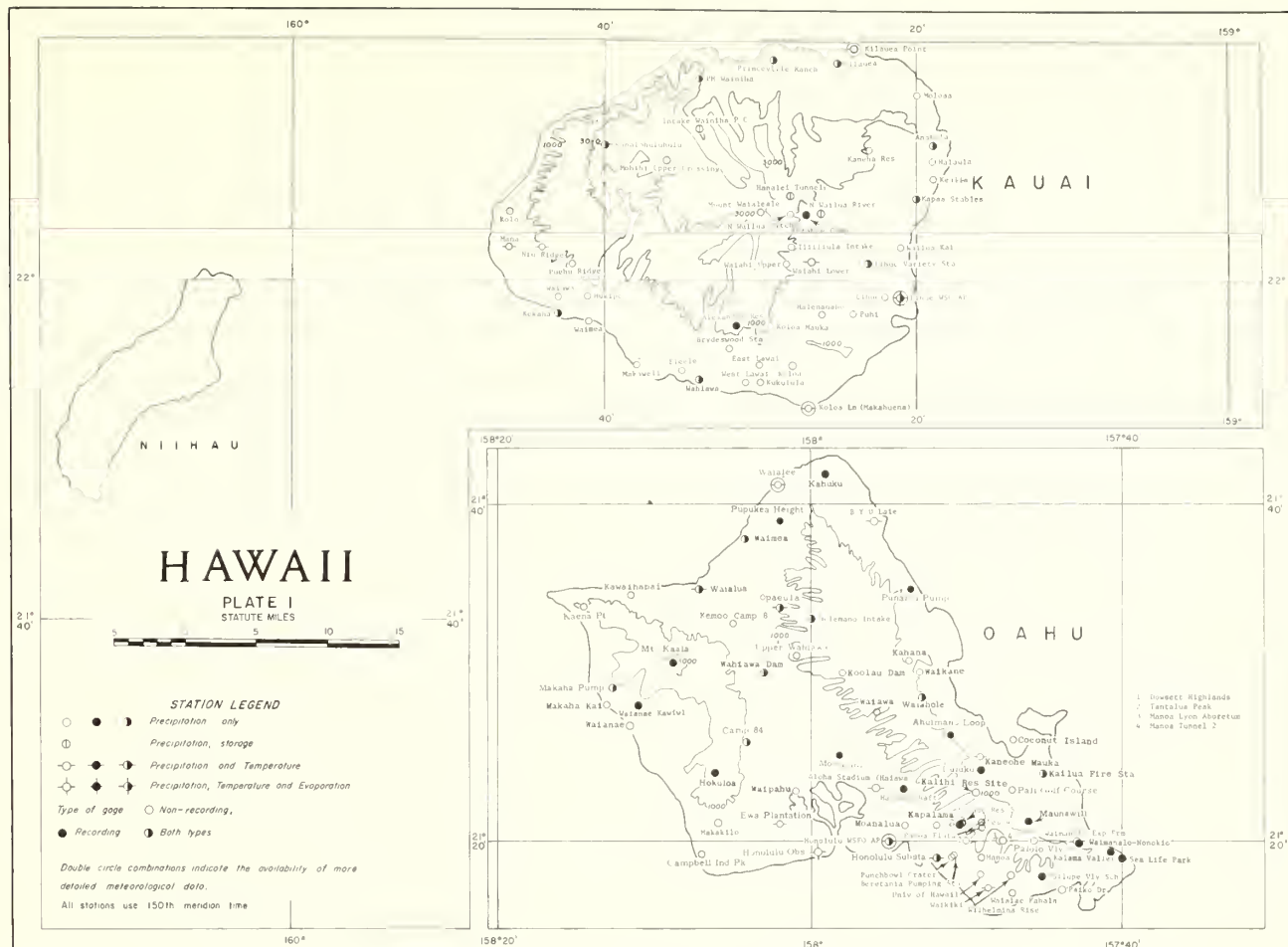
Stations appearing in the tables with no data were either missing or received too late to be included in this issue.

The Pacific includes stations in the Trust Territory of the Pacific Islands, Territory of Guam, American Samoa, and other scattered islands and atolls.

General weather conditions in the U.S. for each month are described in the CLIMATOLOGICAL DATA NATIONAL SUMMARY and STORM DATA.

Information concerning the history of changes in locations, elevations, exposure, etc., of substations through 1957 may be found in the publication "Substation History" for this State, price 40 cents. Similar information for regular National Weather Service Offices may be found in the latest annual issue of Local Climatological Data, price 20 cents. These publications may be obtained from the National Climatic Center at the address shown above.

Subscription Price: \$5.10 a year for each section including annual summary; \$5.55 additional for foreign mailing; 40¢ single copy; 30¢ annual summary. Make checks payable to Department of Commerce, NOAA; send payments and orders to: National Climatic Center, Federal Building, Asheville, N. C. 28801. Attn: Publications.



156°

40'

20'

155°

HAWAII

Upolu Point USCG

Kohala Mission

Hawi

Waikanonoula

Middle Pen

Kukuihaele Mill

Kukuihaele Hic

Kotawe Lower

Kawaihi

Kamuela

Lanai Field Office

Makahala

Unikoa

Puu Mali

Halepula

Puu Kihe

Keaneke Camp

Puu Laau

Mauna Kea Obs

Halepohaku

Polakulua

Honohina

Hakalau

Honolulu Mauna

Papahou Mauna

Kipapa

Pihouma

Saddle Road 1

Hilo Country Club

Waiakoa SCD

Kraau

Orchid Land Estate

Mountain View

Pahoa

Kapohe Landing

Lava Tree Park

Kalapana 1

Hawaii Volcans NP Hq

Halemaunau

Pakao

Kapapala Ranch

Kauai Camp

Pahala

Maoula

Kauai 1

Kauai 2

Naahehu

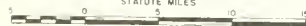
Kauai 2

South Point Corral

HAWAII

PLATE 2

STATUTE MILES



## STATION LEGEND

- ● ○ Precipitation only
- ○ Precipitation, storage
- ○ Precipitation and Temperature
- ○ Precipitation, Temperature and Evaporation
- Type of gage ○ Non-recording.
- Recording ○ Both types

Double circle combinations indicate the availability of more detailed meteorological data

All stations use 150th meridian time

156°

USCOMB-NOAA-Anneville, N C

Revised 1-77

40'

20'

155°

KAUAI

NIIHAU

OAHU

MOLOKAI

LANAI

NAUI

KAOULAWA

HAWAII

160

159

158

157

156

155

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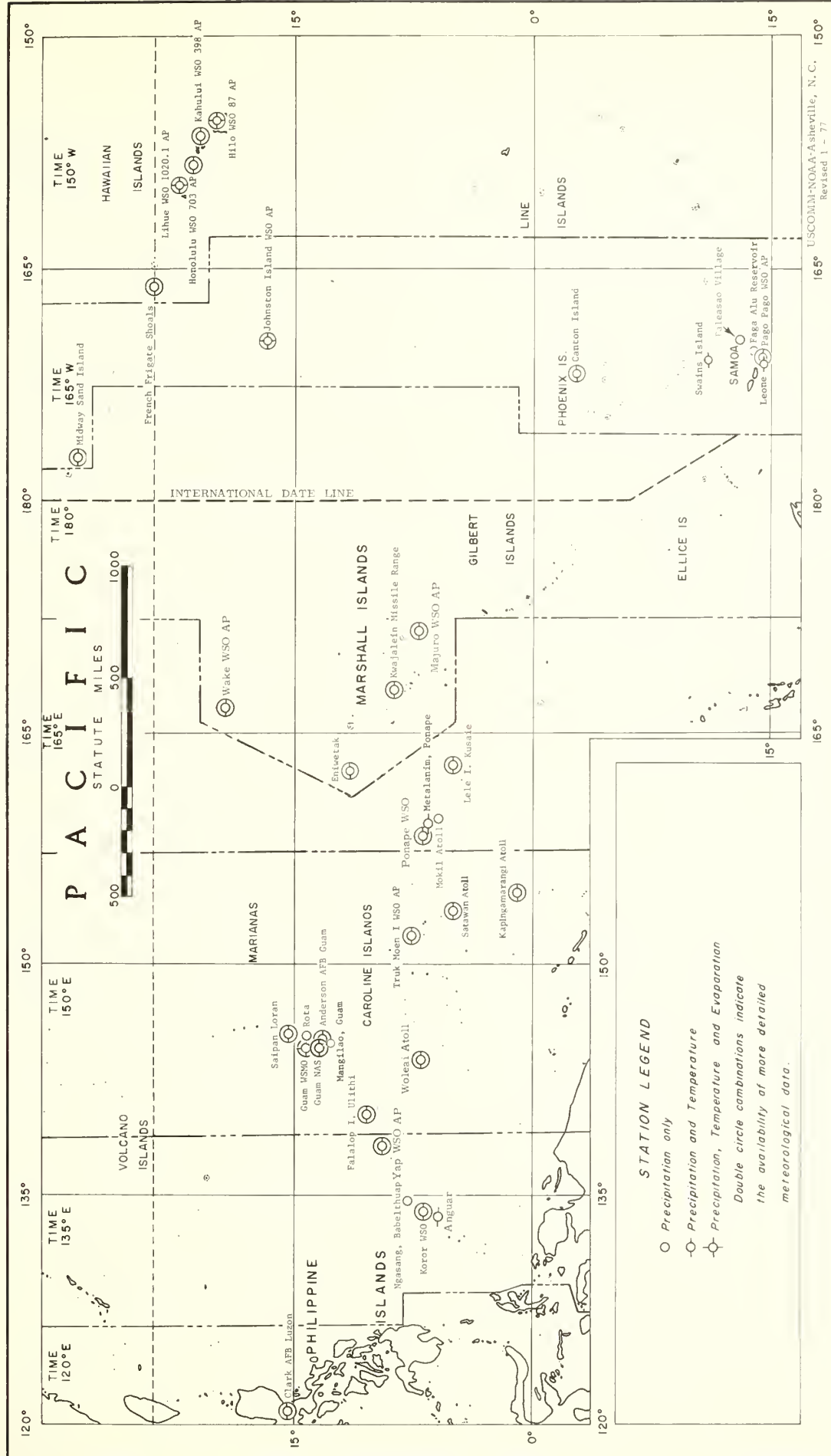
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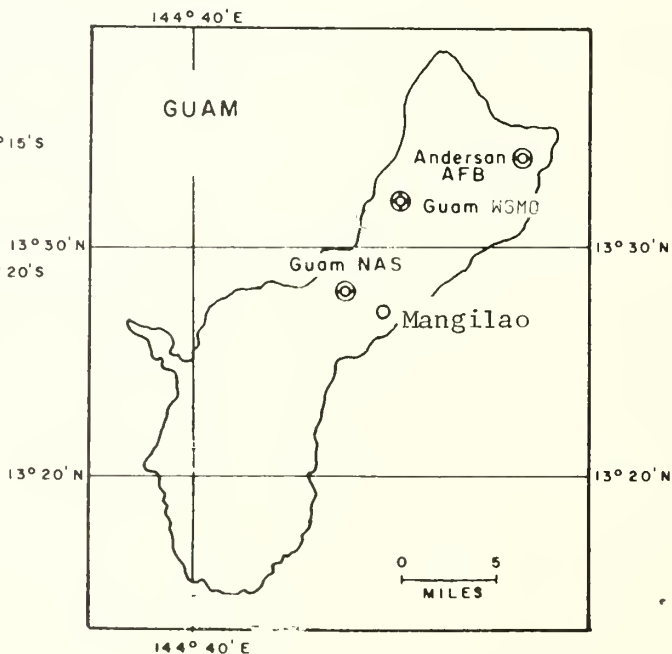
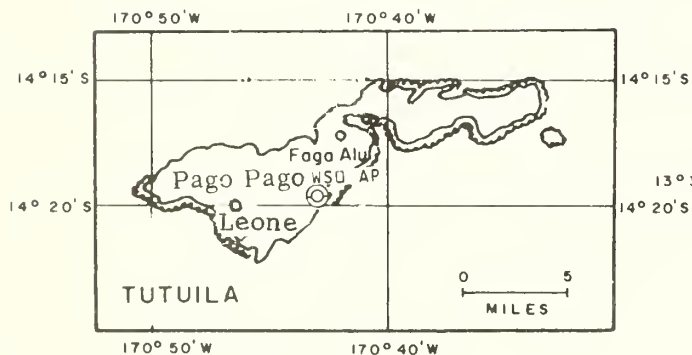
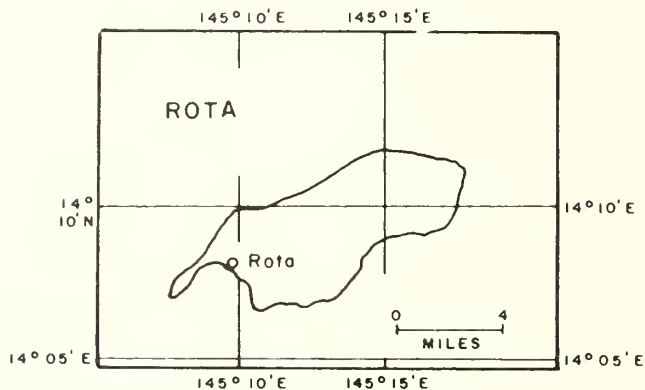
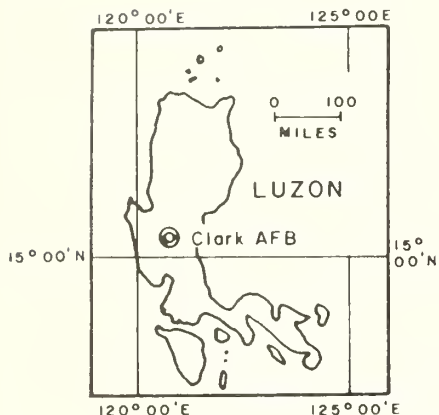
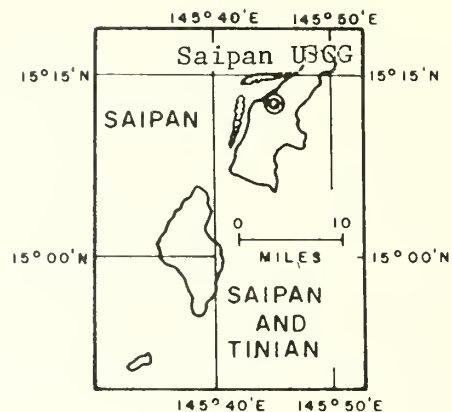
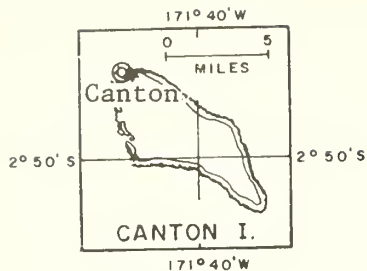
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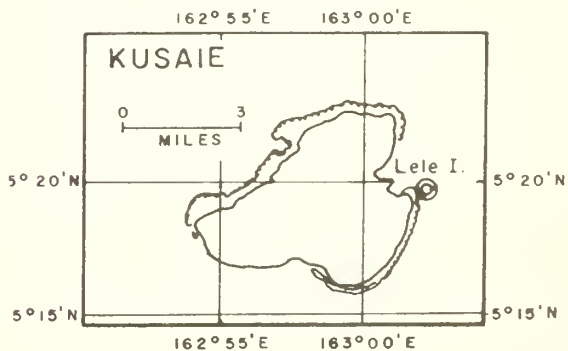
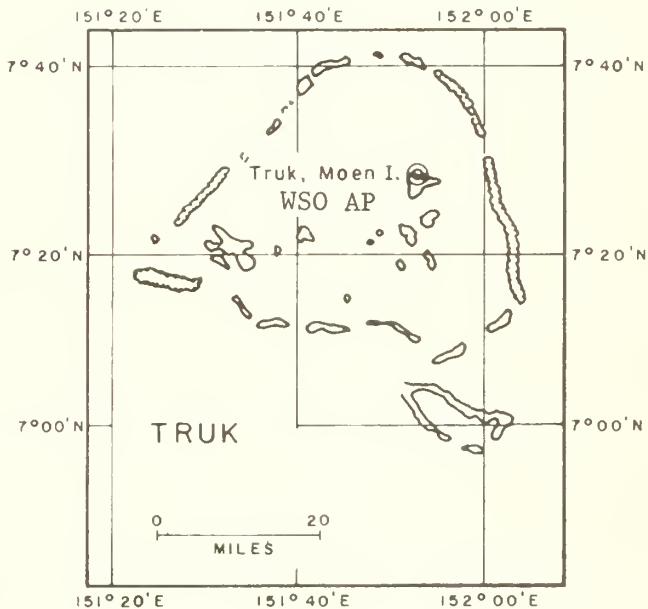
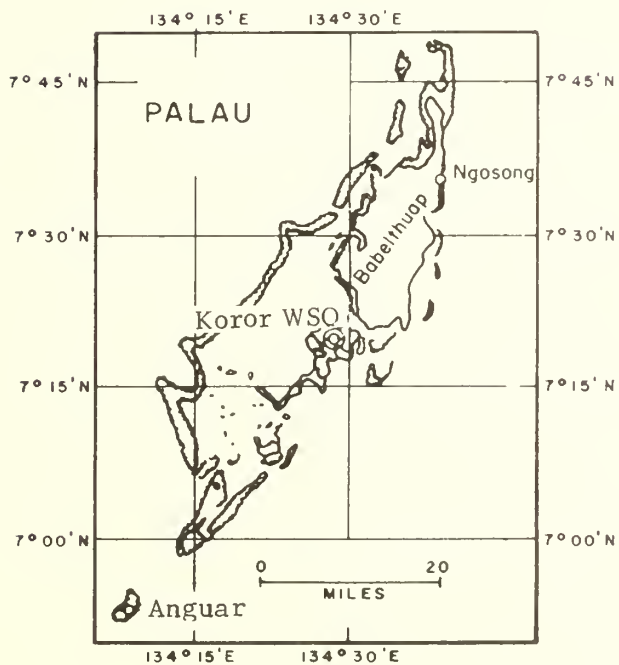
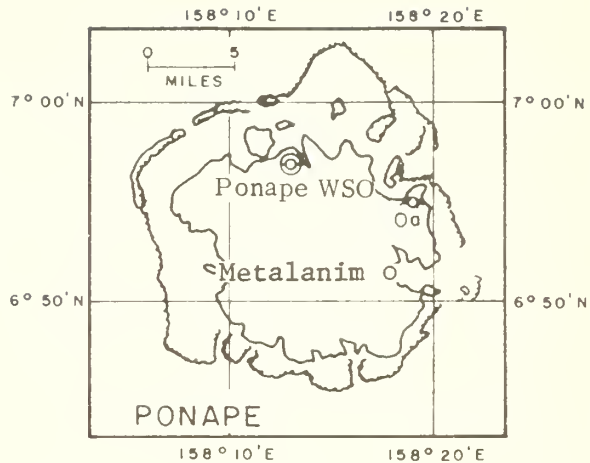
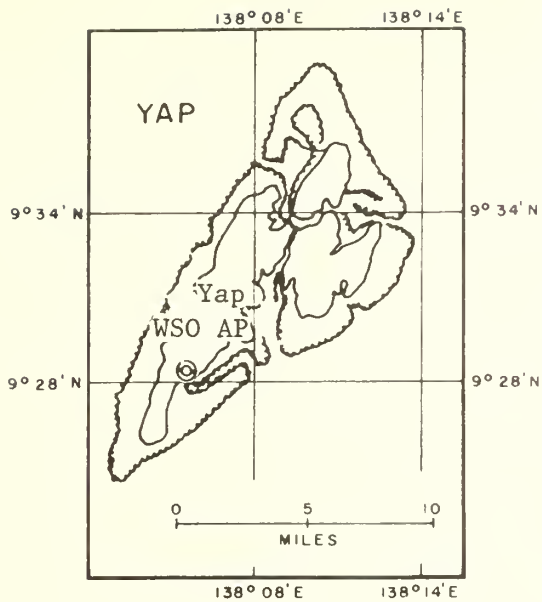
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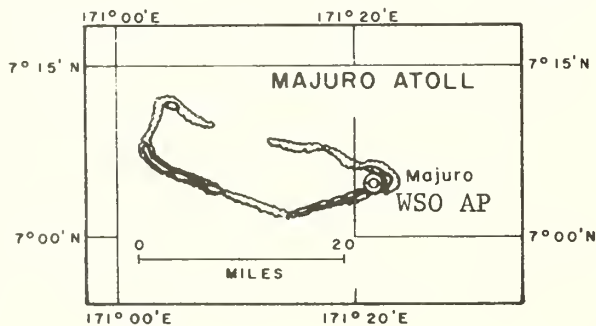
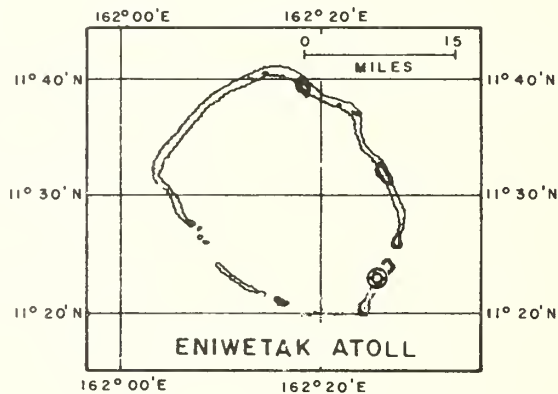
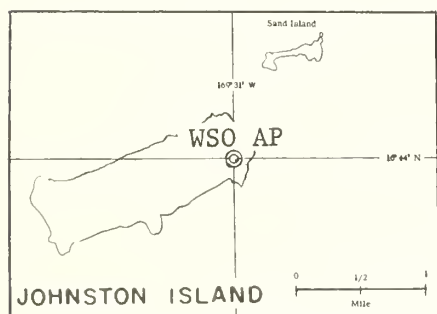
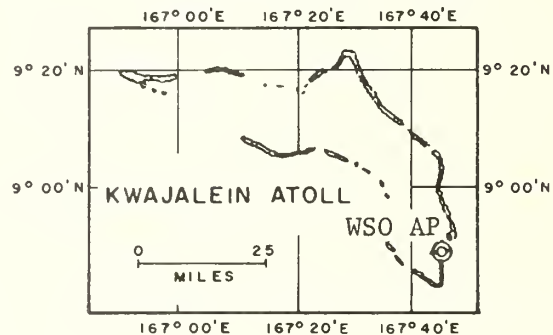
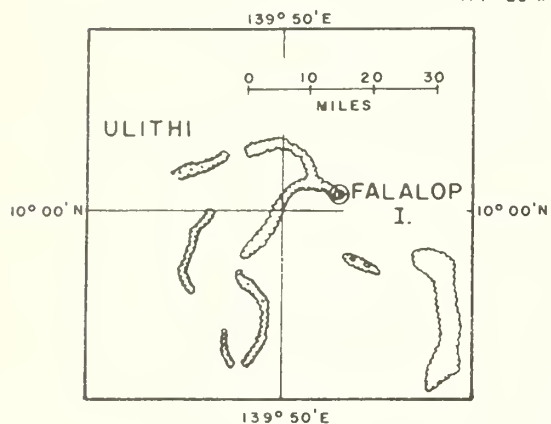
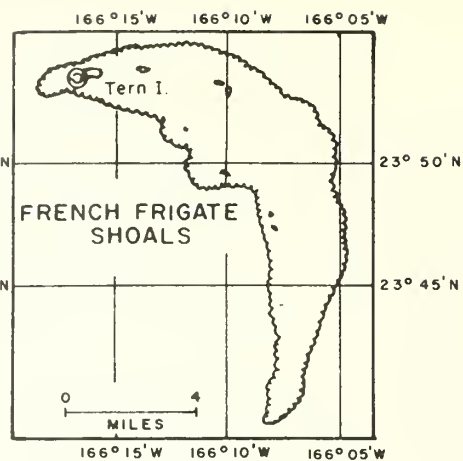
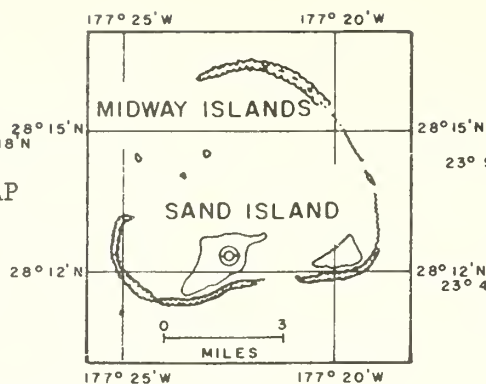
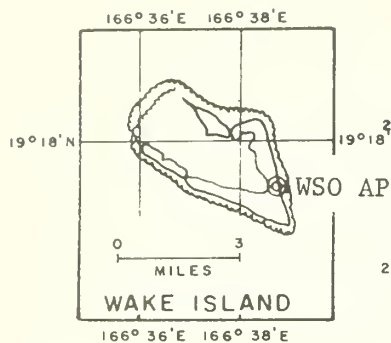




Reef



— Reef







U S DEPARTMENT OF COMMERCE  
NATIONAL CLIMATIC CENTER  
FEDERAL BUILDING  
ASHEVILLE, N C 28801

POSTAGE AND FEES PAID  
U S DEPARTMENT OF COMMERCE

COM 210



**THIRD CLASS**

# Climatological Data

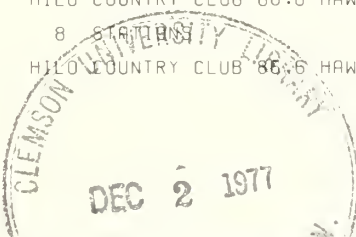


## HAWAII AND PACIFIC

### TEMPERATURE AND PRECIPITATION EXTREMES

HAWAIIAN STATIONS ONLY

HIGHEST TEMPERATURE:	2 STATIONS	95	DATE	18+
LOWEST TEMPERATURE:	MAUNA LOA SLOPE OBS HAWAII	33	DATE	10
GREATEST TOTAL PRECIPITATION:	HILO COUNTRY CLUB 86.6 HAWAII	26.86		
LEAST TOTAL PRECIPITATION:	8 STATIONS	.00		
GREATEST 1 DAY PRECIPITATION:	HILO COUNTRY CLUB 86.6 HAWAII	6.12	DATE	12



### SUPPLEMENTAL DATA

	WIND (SPEED - M.P.H.)						RELATIVE HUMIDITY AVERAGES - PERCENT				NUMBER OF DAYS WITH PRECIPITATION								PERCENT OF POSSIBLE SUNSHINE	AVERAGE (TENTHS) SKY COVER	SUNRISE TO SUNSET
	RESULTANT DIRECTION	RESULTANT SPEED	AVERAGE	FASTEST MILE	DIRECTION OF FASTEST MILE	DATE OF FASTEST MILE	STANDARD OF TIME				TRACE	.01-.09	.10-.49	.50-.99	1.00-1.99	2.00 AND OVER	TOTAL				
							GREENWICH CIVIL														
							12	18	00	06											
GUAM WSMO	-	-	-	19	E	20	-	76	76	94	1	13	8	3	1	0	26	53	8.2		
HILO WSO 87 AP	10	0.6	6.4	19	SE	12	87	78	69	81	0	10	12	3	1	0	26	46	6.5		
HONOLULU WSO 703 AP	7	12.4	13.6	29	E	24	72	66	54	68	7	4	0	0	0	11	74	4.6			
JOHNSTON WSO AP	10	14.8	15.7	41	E	26	80	79	73	78	8	6	6	1	0	0	21	84	5.7		
KAHULUI WSO 398 AP	5	13.0	13.8	32	NE	31+	75	75	58	67	4	5	3	0	0	12	73	3.6			
KOROR WSO	26	5.0	7.9	23	SW	15+	84	-	82	80	1	7	9	2	5	3	27	29	9.3		
KWAJALEIN MISSILE RGN	8	8.3	9.5	26++	11	15	81	82	75	77	6	6	10	3	2	0	27	-	6.8		
LIHUE WSO 1020.1 AP	7	11.0	12.7	23	NE	25+	80	76	66	75	6	11	5	0	0	0	22	70	5.7		
MAJURO WSO AP	7	6.3	7.7	23	E	15+	83	83	77	78	5	4	9	6	2	1	27	65	8.4		
PAGO PAGO WSO AP	11	11.4	14.2	29	SE	06	79	80	70	77	9	7	4	2	0	0	22	49	8.0		
PONAPE WSO	-	-	-	17	NE	29+	94	-	76	79	0	5	14	6	4	2	31	39	8.1		
TRUK MOEN I. WSO AP	17	0.5	6.4	30	NE	31	89	-	78	77	3	7	12	5	2	1	30	51	9.2		
WAKE WSO AP	9	9.7	13.1	30	S	14	91	92	77	81	7	7	7	2	3	2	28	67	6.6		
YAP WSO AP	26	2.5	7.4	25	W	16+	86	-	80	78	2	9	5	6	4	1	27	22	8.8		

I CERTIFY THAT THIS IS AN OFFICIAL PUBLICATION OF THE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION AND IS COMPILED FROM RECORDS ON FILE AT THE NATIONAL CLIMATIC CENTER, ASHEVILLE, NORTH CAROLINA 28801.

*Daniel B. Mitchell* DIRECTOR  
NATIONAL CLIMATIC CENTER

## MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

HAWAII AND PACIFIC  
AUGUST 1977

STATION		TEMPERATURE										PRECIPITATION									
		AVERAGE MAXIMUM	AVERAGE MINIMUM	AVERAGE	DEPARTURE FROM NORMAL	HIGHEST DATE	LOWEST DATE	DEGREE DAYS	NO. OF DAYS				TOTAL	DEPARTURE FROM NORMAL	GREATEST DAY DATE	SNOW, SLEET			NO. OF DAYS		
									MAX.		MIN.					TOTAL	MAX. DEPTH ON GROUND	DATE	-10 OR MORE	-50 OR MORE	-100 OR MORE
									32° OR HIGHER	32° OR LOWER	32° OR HIGHER	32° OR LOWER									
HAWAII																					
ISLAND OF KAUAI																					
ANAHOLA 1114	A											1.63									
KANALOHULU 1075		73.6	55.7	64.7		79 21	49 11		0 0	0 0	0 0	3.62		1.30 14	.0	0			6 2	1 0	0 0
KAPAA STABLES 1104	A											2.58			.0	0					
KILAUEA POINT 1133		86.4	73.5	80.0		94 17	72 31*		3 0	0 0	0 0	1.94		.45 31	.0	0			6 0	0 0	0 0
KOLOA 936												3.02			.0	0					
LIHUE WSO 1020.1 AP	//R	85.3	74.5	79.9	.8	87 28*	70 17		0 0	0 0	0 0	1.33	-.88	.29 12	.0	0			5 0	0 0	0 0
MANA 1026		88.7M	68.6M	78.7M	.5	93 26*	64 1		17 0	0 0	0 0	.87	-.10	.84 14	.0	0			1 1	0 0	0 0
N. WAILUA OITCH 1051	A											9.05			.0	0					
PH. WAINIHA 1115												13.13		2.26 9	.0	0					
PUEHU RIDGE 1040												3.84	2.17	3.03 14	.0	0			3 1	1 1	0 0
WAIHAWA 930	A											1.01	-1.22		.0	0					
WAIHAI LOWER 1054		75.7	66.4	71.1		80 29	63 16		0 0	0 0	0 0	6.00	-4.88	.87 31	.0	0			17 3	0 0	0 0
WAIHAE 947												.80	.03	.44 9	.0	0			2 0	0 0	0 0
ISLAND				74.9								2.97			.0						
ISLAND OF OAHU																					
ALOHA STADIUM-HALAWA		86.3M	71.4M	78.9M		92 17	69 11*		3 0	0 0	0 0	1.67		.05 26	.0	0			0 0	0 0	0 0
8 Y U LAIE 903.1		85.8M	71.9M	78.9M		95 13	68 14		3 0	0 0	0 0	1.47		.45 30	.0	0			5 0	0 0	0 0
HONOLULU OBSERV 702.2												T		16*	.0	0			0 0	0 0	0 0
HONOLULU WSO 703 AP	R	88.7	75.6	82.2	1.5	92 13	70 11		6 0	0 0	0 0	.08	-.68	.03 25	.0	0			0 0	0 0	0 0
KANEHE MAUKA 781		82.6	72.7	77.7	.7	86 18	70 5*		0 0	0 0	0 0	3.30	-.65	.59 6	.0	0			8 2	0 0	0 0
KOOLAUPA DAM 833	A											4.49		.68 7	.0	0			10 5	0 0	0 0
MANDA LYON ARBORETUM		81.4	69.5	75.5		86 18	66 16*		0 0	0 0	0 0	8.36		1.67 31	.0	0			14 5	3 2	0 0
NUUANU RES 4 783												5.20		1.78 12	.0	0			8 3	2 0	0 0
OPAEULA 870	A	82.7	66.5	74.6	1.5	90 17*	61 20*		2 0	0 0	0 0	.29		.20 31	.0	0			1 0	0 0	0 0
PAOLO VALLEY 718	R											7.84	-2.70	2.20 12	.0	0			14 5	3 3	0 0
WAIHAWA DAM 863	A											.60		.20 24	.0	0			2 0	0 0	0 0
WAIHOLE 837	A											8.01			.0	0					
WAIALEE 896.3		84.4M	72.5M	78.5M		86 21*	68 11		0 0	0 0	0 0	1.25		.34 31	.0	0			4 0	0 0	0 0
WAILAUA 847	A	87.0	67.4	77.2	.6	91 12*	61 11		4 0	0 0	0 0	.39	-.87	.14 13	.0	0			2 0	0 0	0 0
WAIKIKI 717.2		89.0	71.1	80.1		91 19*	66 11		14 0	0 0	0 0	.19		.09 30	.0	0			0 0	0 0	0 0
WAIMANALO EXP FARM		84.8	73.4	79.1		89 17	69 15		0 0	0 0	0 0	1.18		.30 31	.0	0			5 0	0 0	0 0
WAIPIAHU 750	A											.28			.0	0			0 0	0 0	0 0
ISLAND				78.3								2.68			.0						
ISLAND OF MOLOKAI																					
KUALAPUU 534	A											.53		.28 12	.0	0			2 0	0 0	0 0
MAUNALO A 511	A											.43		.28 12	.0	0			1 0	0 0	0 0
MOLOKAI AP 524																					
ISLAND												.48			.0						
ISLAND OF LANAI																					
LANAI CITY 672	A																				
ISLAND																					
ISLAND OF MAUI																					
HALEAKALA 8 E S 434	A											6.43		1.92 12	.0	0			9 3	3 3	0 0
HALEAKALA RS 338		67.7	48.5M	58.1M	1.1	74 15	40 21*		0 0	0 0	0 0	6.13	2.86	2.00 12*	.0	0			9 3	2 0	0 0
HANA AIRPORT 355		83.7	71.8	77.8		86 18	67 4		0 0	0 0	0 0	3.97		.80 7	.0	0			9 3	0 0	0 0
HONOKAHU 493	A											1.98		.45 31	.0	0			0 0	0 0	0 0
KAAHAU 453.1		85.2	70.6	77.9		87 28*	65 8*		0 0	0 0	0 0	.63		.26 12	.0	0			2 0	0 0	0 0
KAHULUI WSO 398 AP	R	88.1	72.2	80.2	1.4	93 12	67 21*		8 0	0 0	0 0	.71	-.37	.26 6	.0	0			3 0	0 0	0 0
KAILUA 446		79.7M	68.3M	74.0M	.7	82 22*	65 15		0 0	0 0	0 0	18.18			.0	0					
KERAE 346	A											19.60			.0	0					
KIPAHULU 258												4.52	-3.14	.95 12	.0	0			11 4	0 0	0 0
KULA SANATORIUM 267		75.5	60.8	68.2	1.9	79 25	58 4*		0 0	0 0	0 0	1.39	-.68	.91 13	.0	0			2 1	0 0	0 0
LAHAINA 361		89.8	70.0	79.9	1.9	93 25	68 11*		17 0	0 0	0 0	.09	-.24	.05 8	.0	0			0 0	0 0	0 0
PAIA 406												2.09		.42 7	.0	0			7 1	0 0	0 0
WAILUKU 386	A	83.3M	71.7M	77.5M	-.5	87 15	68 15		0 0	0 0	0 0	.55	-.22	.15 5	.0	0			0 0	0 0	0 0
ISLAND				74.2								4.01			.0						
ISLAND OF HAWAII																					
HAWAII VOLCNS NP HQ 54	R	72.3M	50.7M	61.5M	-1.7	76 17*	41 14*		0 0	0 0	0 0	8.96	-1.76	2.90 7	.0	0			4 2	0 0	0 0
HILO WSO AP 87		86.0	70.1	78.1	-2.2	89 17*	67 30*		0 0	0 0	0 0	7.60	-3.28	1.69 11	.0	0			16 4	1 1	0 0
HUEHUE 92.1	A											3.71		1.54 20	.0	0			10 1	1 0	0 0
KAINALU 73.2		80.6	62.8	71.7		84 7	59 11		0 0	0 0	0 0	9.50		.91 30	.0	0			11 1	0 0	0 0
KAPOHO BEACH 93.11		87.5M	71.1M	79.3M		95 18	68 15*		5 0	0 0	0 0	3.41		.65 7	.0	0			11 1	0 0	0 0
KERAE 92		82.7	68.0	75.4		88 19	66 30*		0 0	0 0	0 0	9.09		2.05 12	.0	0			16 4	3 3	0 0

SEE REFERENCE NOTES FOLLOWING STATION INDEX

# MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

HAWAII AND PACIFIC  
AUGUST 1977

STATION		TEMPERATURE										PRECIPITATION																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
		AVERAGE MAXIMUM	AVERAGE MINIMUM	AVERAGE	DEPARTURE FROM NORMAL	HIGHEST	DATE	LOWEST	DATE	DEGREE DAYS	NO. OF DAYS				TOTAL	DEPARTURE FROM NORMAL	GREATEST DAY	DATE	SNOW. SLEET			NO. OF DAYS																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
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SEE REFERENCE NOTES FOLLOWING STATION INDEX

## MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

HAWAII AND PACIFIC  
AUGUST 1977

STATION		TEMPERATURE										PRECIPITATION																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
		AVERAGE MAXIMUM	AVERAGE MINIMUM	AVERAGE	DEPARTURE FROM NORMAL	HIGHEST	DATE	LOWEST	DATE	DEGREE DAYS	NO. OF DAYS				TOTAL	DEPARTURE FROM NORMAL	GREATEST DAY	DATE	SNOW, SLEET			NO. OF DAYS																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
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SEE REFERENCE NOTES FOLLOWING STATION INDEX



## DAILY PRECIPITATION

HAWAII AND PACIFIC  
AUGUST 1977

STATION		TOTAL	DAY OF MONTH																														
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
HAWAII																																	
ISLAND OF KAUAI																																	
ANAHOLA 1114	A	1.63	.08	.04	.05					.50			.02			.45							.03	.07		.10				.03	.05	.25	
BRIDESWOOD STA 885	A	1.84	.09	.04	.05	.03				.30	.02					.15	.01						.07	.10		.15	.17			.11	.04	.51	
EAST LAWA 834	A	2.87	.18	.06	.11	.02	.12			.78	.10	.04				.21	.03						.09	.16	.13	.30				.15	.08	.30	
ELELE 827	A	.63	.02	.04		.02				.01		.04				.11							.08	.08	.11					.08	.01	.04	
HALEAULA 1110	A	2.20	.15	.03	.07					.85			.02			.40						.03		.05	.05		.15			.05	.05	.30	
HALENAHAWA 1006	A	3.48	.06	.03	.20	.04	.27			.57	.18	.05	.03	.06									.34	.03	.26	.10				.20	.05	.61	
HUKIPO 845	A	.92														.82																	
ILITILUA INTAKE 1050	A	8.70	.19	.38	.07	.08	.21			2.05	.24	.22	.05	.06		2.76						.02		.56	.03	.50		.08	.85		.17	.15	1.02
INTAKE WAINIHA PC 1086	A	6.39	.28							3.60						2.13											.38						
KANALOHULULU 1075	A	3.62		.02			.06		.31	.20		.04	.02		.83	1.30	.02						.03	.08		.23			.04			.08	
KANEHA RESERVOIR 1092	A	8.29	.50	.05	.30					1.55	.35	.15	.05			4.00						.03		.25	.10	.03	.08			.30	.25	.30	
KAPPA STABLES 1104	A	2.58	.13	.10	.04	.08				.57	.10	.04	.07			.58							.12		.18	.06				.12	.05	.32	
KELIA 1112	A	2.04	.15	.10	.05	.05				.55			.10			.30							.07	.20	.02	.15					.05	.25	
KEKAHA 944	A	.92														.87																	
KILAUEA 1134	A	2.56	.06	.08		.10	.27		.57	.16	.05	.04			.18	.12	.05				.10			.04	.04		.10		.05			.54	
KILAUEA POINT 1133	A	1.84	.01	.03		.01	.06		.18	.20		.11			.41	.02		.08				.02	.10	.02	.08	.01	.21	.01	.02			.46	
KOLA 1033	A	.12														.01																	
KOLA 836	A	3.02	.16	.10	.16	.02	.16			.92	.04	.04				.26							.12	.08	.14	.17				.22	.13	.26	
KOLA LN (MOK) 840.1	A	.93	.02	.12	.01			.02	.15	.02	.02	.01			.04								.02	.11	.06	.28					.02	.07	
KOLA MUKA 954	A	3.65		.08								.141					.53							.18	.21							.48	
KUKULUA 835	A	1.48	.13	.05	.06	.01				.40	.10					.06							.09	.04	.06	.14				.21	.02	.12	
LIHUE VARIETY ST 1062.1	A	3.67	.17	.03		.13				.90	.08	.10	.03			.58						.05		.08	.02	.32		.08	.41		.21	.11	.35
LIHUE 1020	A	2.16	.01	.03	.02	.01				.45	.14	.02	.01	.11		.60							.21	.17	.04	.07				.04	.01	.22	
LIHUE WSD 1020.1 AP	A	1.33	.01	T	.01	T	.01	.10		.04	.20	.01	.29			.05						T	.03		.04	.14				.05	.08	.01	.22
MAKAUELE 965	A	.24							.01																.04	.14				.03	.25	.04	.01
MAKAUELE 965	A	.24																							.04	.14				.03	.25	.04	.01
MAKAUELE 965	A	.24																							.04	.14				.03	.25	.04	.01
MAKAUELE 965	A	.24																							.04	.14				.03	.25	.04	.01
MAKAUELE 965	A	.24																							.04	.14				.03	.25	.04	.01
MAKAUELE 965	A	.24																							.04	.14				.03	.25	.04	.01
MAKAUELE 965	A	.24																							.04	.14				.03	.25	.04	.01
MAKAUELE 965	A	.24																							.04	.14				.03	.25	.04	.01
MAKAUELE 965	A	.24																							.04	.14				.03	.25	.04	.01
MAKAUELE 965	A	.24																							.04	.14				.03	.25	.04	.01
MAKAUELE 965	A	.24																							.04	.14				.03	.25	.04	.01
MAKAUELE 965	A	.24																							.04	.14				.03	.25	.04	.01
MAKAUELE 965	A	.24																							.04	.14				.03	.25	.04	.01
MAKAUELE 965	A	.24																							.04	.14				.03	.25	.04	.01
MAKAUELE 965	A	.24																							.04	.14				.03	.25	.04	.01
MAKAUELE 965	A	.24																							.04	.14				.03	.25	.04	.01
MAKAUELE 965	A	.24																							.04	.14				.03	.25	.04	.01
MAKAUELE 965	A	.24																							.04	.14				.03	.25	.04	.01
MAKAUELE 965	A	.24																							.04	.14				.03	.25	.04	.01
MAKAUELE 965	A	.24																							.04	.14				.03	.25	.04	.01
MAKAUELE 965	A	.24																							.04	.14				.03	.25	.04	.01
MAKAUELE 965	A	.24																							.04	.14				.03	.25	.04	.01
MAKAUELE 965	A	.24																							.04	.14				.03	.25	.04	.01
MAKAUELE 965	A	.24																							.04	.14				.03	.25	.04	.01
MAKAUELE 965	A	.24																							.04	.14				.03	.25	.04	.01
MAKAUELE 965	A	.24																							.04	.14				.03	.25	.04	.01
MAKAUELE 965	A	.24																							.04	.14				.03	.25	.04	.01
MAKAUELE 965	A	.24																							.04	.14				.03	.25	.04	.01
MAKAUELE 965	A	.24																							.04	.14				.03	.25	.04	.01
MAKAUELE 965	A	.24																							.04	.14				.03	.25	.04	.01
MAKAUELE 965	A	.24																							.04	.14				.03	.25	.04	.01
MAKAUELE 965	A	.24																							.04	.14				.03	.25	.04	.01
MAKAUELE 965	A	.24																							.04	.14				.03	.25	.04	.01
MAKAUELE 965	A	.24																							.04	.14				.03	.25	.04	.01
MAKAUELE 965	A	.24																															

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# DAILY PRECIPITATION

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STATION	TOTAL	DAY OF MONTH																																
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
HAWAII																																		
KUKUHALE MILL 206	A	5.08	.12	.10	.81	.16	.20	x	x	1.63	.01		1.21					.01			x	x	.12	.18	.02	.03	x	x	.31	.04	.02	.		
KULANI CAMP 79		18.03	x	x	x	.07	.01	.03	6.05	.02		3.95	3.95	1.55	x	x	x	x	.09		.09	.20	.47	.17	.54	.15	.01	.03	.03	.20	.01	.		
KULANI MAUKA 76	A	6.97	x	x	x	x	x	x	x	4.66	x	x	x	x	x	2.00	x	x	x	x	x	x	.16	x	x	x	x	x	x	.15	x	x	.	
KULANI SCHOOL SITE 78	A	14.78	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	.		
LANIHAU 68.2		6.56	.07						1.26	.17	1.47		.03	.06						.42	.13	1.60	.14	.08		.05	1.65	x	x	x	1.08	.	.	
MAKAHALAU 103		3.18		.28		x	x	1.40	x	x		.40	x	x	.10					x	x	.68	.06		x	x	x	x	.17			.		
MAUKA 2	A	2.75				.20	x	x	.60	.05		.02	1.70		.10			.20		x	x	x	.50	x		.80	x	x	.10		.20	.		
MAUNA KEA 885 111.2		3.26				.63		.86	.02			.18	x	x															.03	T		.		
MAUNA LOA SLOPE 885		1.83						1.26	.16			.18	x	x	.14														x	.08		.		
MIDDLE MAUNALOA 68.1	A	1.78	.50	x	x	x	x	x	.35	x	x	x	x	x	.42	x	x	x	x	x	x	x	.45	x	x	x	x	x	x	.06	x	x	.	
MIDDLE PEN 147.1	A	.62						.37				.08											.16									.	.	
MAUNA 18		3.40	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	2.40	x	x	x	x	x	x	x	x	x	x	1.00	.		
MOUNTAIN VIEW 91		16.55	.38	.23	1.91	.42	.13	.26	3.55	.15	.03	2.81	1.22	.26			.08	.13		.18	.28	.56	.71	.84	.11	.38	.07	.74	.17	.30	.82	.		
MALEHU 14	A	3.98	.28	x	x	x	x	x	.52	.05		.83	x	x	1.17		.10	.66		x	x	x	.30	.04								.		
MAPOPOO 28	A	2.20	.28	x	x	x	x	x	x	.62	x	x	x	x	x	.47	x	x	x	x	x	x	.44	x	x	x	x	x	x	.19	x	.		
MAKALA 223		13.17	.23	.30	1.68	1.19	.23	.28	2.15	.06		3.60	.88	T			.05			T	.06	.01	.44	.53	.07	.17	.01	.47	.29	.25	.22	.		
OPHIHALE 2 24.1		2.85	.05		.45	T	.08	T	.04	T	.06	T	.02	.36	.14	.03	T	.36	.01	.04	T	.15	T	.24	.05	.03	T	.04	.63	T	.07	.		
SOUTH LAND EST 91.5	A	7.52	x	x	x	x	1.94	x	x	x	x	3.28	x	x	x		x	x	.38	x	x	x	x	x	x	x	1.90	x	x	x	x	.		
PARAHUA 217		7.77	.30	.15	1.87	.10	.18	.28	1.42	.02		2.45	.02	.01								.17	.27	.04	.05	T	.23	.11				.		
PRAJIL 221		10.84	.12	.25	2.05	.30	.63	.40	2.03	.01		3.83	.03									.19	.45	.11	.18	T	.17	.07	.08	.04	.	.		
PAHALA 21	A	6.29						2.02	.27		1.38	x	x	1.36			.26	.31		.62	x	x	.06	.01								.		
PANDORA 55		7.92	.04	.06	.69	.06	.15	.45	1.83	.08	.03	.03	1.30	.23	.01		x	.09	.04		.07	.44	.26	.34	.33	.36	.25	.07	.08	.29	.07	.11	.15	.
PAKAO 37	A	.00																														.	.	
PAPAIKOU 144.1	A	V19.81	.82	.01	.55	.17	.26	x	x	1.25		2.80	x	x	1.10		.01	.01	.22	.02	x	x	.92	.35	.21	.28	.08	x	x	.46	.39	.73	.	
PAPAIKOU MAUKA 140.1		V41.13	1.31	.27	2.44	.08	.11	x	x	2.13	.03	5.50	x	x	3.50		.15	.34	.11	x	x	1.50	1.48	.31	.38	.12	x	x	1.53	.38	1.18	.	.	
PIIHONUA 89	A	24.40	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	24.40	.		
POHAKULUA 107	A	1.10	x	x	x	x	x	x	.06	x	x	x	1.10																				.	
PUKAHULA HEIAU 98.1	A	-	-	-	-	-	-	-												-		.06					-	-	-	-	-	.		
PUU LEHUA 73	A	.75	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	.75	.		
PUU WAAHUA 84.1	A	1.34							x	.75													.59										.	
SADDLE ROAD 1 84	A	24.21	x	x	x	3.43	x	x	x	x	x	5.65	x	x	x	x	x	10.70	x	x	x	x	x	x	x	x	4.43	x	x	x	x	x	.	
SOUTH KONA 2.31		1.26			.01			.33	x	.10		.32	.18	x	x	x	x	.17	.01		.04	.10										.		
SOUTH POINT CORRAL 3	A	1.66		.11	x	x	x	x	.30	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	1.25					.		
URUHI POINT USCG 158.2		1.70	T	T		.02	.25	.03				.50	.05	T							.15	T	.19	.10	T				.11	.25	.05	.		
WAIKAKA SCD 88.2		18.48	.33	.09	2.26	.70	.21	.20	2.70	.11	.01	4.04	1.54	.14			.04	.51		.06	.25	.42	1.09	1.04	.25	.33	.06	.14	.71	.37	.34	.54	.	
WAIKAKA-BBIS CAS 85.8		.59				.07	x	x	.02		T	.38								.11			.01										.	

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# DAILY PRECIPITATION

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STATION	TOTAL	DAY OF MONTH																															
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
PACIFIC																																	
* * *																																	
EAST OF 180TH																																	
MERIDIAN																																	
CANTON ISLAND	5.54	.54	.04	1.76	-	-	-	x	.21	.06	.42	.02	-	-	-	-	.01	.07	1.92	.02	x	-	.03	.08	-	-	-	-	x	.18	.18	-	-
FAGA ALU RESERVOIR	10.94	-	-	-	.05	.01	T	.14	.18	.11	.87	.14	2.06	.86	.72	-	-	-	-	-	-	.01	.67	.18	.21	.19	.92	.78	.13	.58	.10	-	2.84
FALEASAO VILLAGE	1.74	x	.15	T	.27	.22	T	.02	T	.01	.01	.01	.08	.01	.14	T	-	-	-	-	T	T	-	.03	.02	T	.06	x	x	x	x	x	-
JOHNSTON WSO AP	-	.03	-	-	.10	.18	.11	.01	.01	.06	.03	.01	.08	.01	-	-	-	-	-	-	-	-	.09	x	x	x	x	x	x	x	x	x	
LEONE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
FRENCH FRIGATE SHOALS	1.04	.02	-	-	.01	.03	T	.15	.04	.07	.27	.02	.01	.01	.02	T	T	T	.14	T	.01	.07	.01	.01	.02	.08	.04	.03	.03	.01	.01	.15	
MIDWAY SAND ISLAND	1.10	.03	-	-	.14	.03	.14	.01	.01	T	.02	T	.04	T	.02	T	T	T	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
PAGO PAGO WSO AP	2.40	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
* * *																																	
WESTERN PACIFIC ISL.																																	
NORTH OF 12 N																																	
ANDERSEN AFB GUAM	5.00	-	-	.22	.01	.07	.05	.14	T	T	.08	.05	.03	.07	.07	.07	.70	.17	.24	.28	.10	.04	.01	.01	T	1.24	.25	.72	.09	.27	.02	-	
CLARK AFB LUZON	12.58	.51	.06	1.07	.06	T	T	.74	.19	.03	.03	.03	.08	.01	.05	.05	.04	2.07	1.32	2.48	.15	.01	.01	.17	1.29	.23	.05	1.28	.56	.04	-	-	
GUAM NAS	4.12	.03	.17	.02	.25	.22	.24	.03	.03	T	.05	.28	.28	.08	.52	.06	.05	.06	.08	.08	.39	.74	.03	.32	.22	.09	.02	.32	.09	.02	-	-	
GUAM WSO	6.09	T	.43	.18	.08	.03	.13	.04	.43	.17	.03	.02	.10	.03	1.42	.98	.07	.27	.10	.01	.01	.76	.03	.06	.09	.53	.09	.06	.09	.53	.09	-	
MANGILAO	5.51	-	.14	.27	.16	.15	.01	.15	.01	-	.15	-	-	.40	.11	.04	.01	.95	.01	.02	.04	.19	.16	.06	.05	.71	1.56	.18	.14	-	-	-	
ROTA	6.90	.18	.06	.29	.01	.01	x	x	.24	.11	.23	.13	.04	x	x	1.03	.01	.27	.17	.63	x	x	2.28	.05	.14	.02	x	x	.31	x	.69	-	
SAIPAN LABAN	4.32	.02	.04	.32	.01	.33	.68	2.54	2.09	.12	1.25	1.55	.22	.23	1.92	.01	.08	.03	1.51	.22	.01	T	.29	T	.06	.07	.01	.12	.01	.02	.01	1.04	.41
WAKE WSO AP	12.39	T	T	.60	T	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
* * *																																	
CAROLINE AND MARSHALL ISLANDS																																	
ANGUAR	9.95	.02	.02	.01	.53	.31	-	.02	.05	.01	.40	.62	.85	1.10	.50	.29	.01	.03	.03	.06	.17	.21	.32	.50	.04	.04	.10	.67	1.56	1.13	.35	-	
ENIWEAT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
FALALBP I. ULITHI	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
KAPINGOMARANGI ATOLL	4.08	.04	.10	.09	-	.40	-	.04	-	.06	.05	.10	.57	.10	.01	.27	.53	.48	.03	.03	-	-	.06	.30	.02	.13	.04	.07	.27	.03	.25	-	
KOROR WSO	19.20	.07	1.64	1.47	2.69	.17	1.21	.04	.91	.27	.05	2.73	1.44	.07	.03	.13	.25	.03	T	.15	.43	.03	.26	.24	2.12	.58	1.80	.39	-	-	-	-	
KWAJALEIN MISSILE RMN	7.58	.38	.04	.39	.23	T	.01	.08	.60	T	.40	T	.32	1.01	.14	.18	.34	.04	.05	.75	.10	T	.72	T	.02	.28	1.80	.10	-	-	-	-	
LELE I. KUSAIE	10.68	.06	.65	T	2.53	.09	.37	.40	.04	T	.12	.01	.17	.34	.03	2.47	.24	1.00	.32	.03	1.22	.55	.10	.04	T	.81	T	-	-	-	-		
MUJURO WSO AP	11.15	.78	.61	T	.24	.96	T	.53	.18	.40	T	.12	.01	.17	.34	.03	2.47	.24	1.00	.32	.03	1.22	.55	.10	.04	T	.81	T	-	-	-		
NETALANIT	8.61	-	-	.10	.08	-	-	T	.05	.10	.05	T	.40	.40	.06	.08	T	.10	1.00	.21	.80	.20	1.10	.86	.05	1.05	.20	T	.01	.75	.75	-	
7.31	.10	.20	.10	.08	-	-	-	T	.05	.10	.05	T	.40	.40	.06	.08	T	.10	1.00	.21	.80	.20	1.10	.86	.05	1.05	.20	T	.01	.75	.75	-	
NOBARSANOBBELTHURP	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
PONAPE WSO	18.72	.31	.68	.04	.42	.03	.20	.16	1.37	2.57	.68	.69	.24	.02	.86	.86	.04	.51	.27	.11	1.15	.11	.05	.22	.10	.36	.44	1.44	.44	2.37	1.52	.46	
SATAHAN ATOLL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
TAUK, MOEN I. WSO AP	14.20	T	.11	.46	.05	.33	.47	.07	.02	.71	.18	.05	T	3.33	.15	.61	.04	.05	.09	1.70	.29	.14	.28	.65	.34	.36	1.95	.76	T	.44	.56	-	
WOLEAI ATOLL	11.43	2.02	.15	.05	.21	T	.18	.21	.02	-	.02	.02	.10	.40	2.63	.46	.15	-	-	.47	.05	.10	.09	.30	.02	.08	.02	.38	.07	2.54	.57	.12	
YAP WSO AP	13.99	.05	.28	1.31	.62	.13	.05	.05	-	T	.03	T	.88	.05	1.63	.54	.44	1.58	.01	.79	.19	-	-	.02	.88	.39	.04	2.17	1.10	.66	.09	-	

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# DAILY TEMPERATURES

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STATION		DAY OF MONTH																															AVERAGE	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
HAWAII																																		
ISLAND OF KAUAI																																		
KANALOHULUHULU 1075	MAX MIN	75 57	74 58	73 56	75 55	70 56	74 59	74 60	71 61	72 53	71 50	74 49	72 51	72 59	75 58	76 55	74 52	72 52	75 52	75 52	73 50	79 50	74 55	76 57	73 58	70 59	72 60	72 58	77 58	76 58	75 57	72 60	73.6 55.7	
KILAUEA POINT 1133	MAX MIN	85 74	87 72	86 73	87 73	82 74	86 73	86 74	83 72	84 73	85 74	86 73	86 73	90 76	85 73	86 74	90 72	94 72	86 74	87 74	87 73	87 73	87 74	88 74	86 73	84 75	84 73	84 72	86 75	87 74	89 74	87 72	86.4 73.5	
KOLOA LN (MAK) 940.1	MAX MIN	85 75	86 72	86 73	86 73	86 75	87 74	87 74	86 73	87 73	89 76	89 74	87 74	88 76	90 73	90 73	91 77	94 71	91 74	89 74	87 72	88 73	88 74	88 74	87 72	86 73	85 75	86 73	87 75	87 77	86 74	87 74	87 72	87.6 73.5
LIHUE WSO 1020.1 AP	MAX MIN	85 75	85 72	85 74	85 75	86 76	85 75	84 76	84 74	84 73	84 76	84 74	83 74	84 76	84 73	87 73	85 73	86 71	86 70	85 74	86 77	85 74	86 73	86 78	86 74	85 74	86 73	86 75	87 77	87 78	86 77	86 74	86 76	85.3 74.5
MANA 1026	MAX MIN	90 64	90 67	90 66	89 66	90 71	83 70	90 72	90 69	88 68	87 67	89 66	91 74	87 71	85 72	84 74	87 71	88 70	87 69	86 68	87 67	90 66	90 65	90 67	91 67	93 70	90 65	90 69	90 69	90 70	88.7 68.6			
NIU RIDGE 1035	MAX MIN	89 60	89 60	89 60	89 59	87 61		90 61	87 61	88 61	87 61	88 61		90 60	83 69	84 68	87 65	87 65				86 65		87 64	88 62	87 62	87 61		88 61	87 61	89 60	89 60	87.5 62.0	
WAIAMI LOWER 1054	MAX MIN	73 67	73 68	74 66	75 65	75 67	71 67	73 65	72 67	75 65	75 66	77 65	76 66	74 66	75 67	77 67	77 63	77 65	77 66	77 66	77 65	77 65	77 65	77 66	76 65	74 66	76 67	77 67	77 68	80 69	78 68	78 69	75.7 66.4	
ISLAND OF OAHU																																		
ALOHA STADIUM-HALAWA	MAX MIN	86 71	85 71	83 69	85 70	85 71		86 73	86 70	84 70	88 69	86 71		87 70	88 70	92 71	91 71	91 71					86 72	85 74	86 70	85 74	84 74		87 73	87 73	83 74	83 74	86.3 71.4	
B Y U LAIE 903.1	MAX MIN	85 71	84 72	82 73	84 74	86 70		83 73	84 73	85 72	88 70	93 73	95 71	91 68	89 70	85 72	83 71	84 71	86 72				85 72	85 73	86 72	83 71	87 75		83 73	84 73	85 72	85.8 71.9		
EWA PLANTATION 741	MAX MIN	88 69	89 70	89 69	88 69	89 67		89 70	91 67	90 68	90 65	89 70		89 67	87 69	86 68	88 70	91 69				90 70	88 67	88 72	89 74	89 74		90 67	90 72	85 74	88.8 69.6			
HONOLULU WSO 703 AP	MAX MIN	89 76	88 74	88 75	88 73	88 76	87 78	89 77	89 76	89 76	89 75	90 70	89 76	92 79	90 74	86 72	87 74	89 73	90 75	89 76	90 76	89 76	89 77	88 76	89 76	88 76	88 76	89 76	88 76	86 75	89 78	89 78	88.7 75.6	
KANEHE MAUKA 781	MAX MIN	82 74	82 70	82 71	84 72	83 70	79 71	81 71	84 71	84 72	84 73	85 74	88 75	80 73	83 73	82 72	85 73	86 74	84 72	84 73	84 73	82 73	83 74	83 74	83 74	83 74	82 74	81 74	79 72	82 74	84 75	83 72	82.6 72.7	
MANDA LYON ARBORETUM	MAX MIN	80 70	81 67	81 69	80 69	81 69	77 69	78 70	81 71	83 72	84 70	85 68	83 70	83 72	84 68	85 66	85 66	86 69	81 70	81 69	81 69	82 70	82 72	82 72	79 70	81 69	77 72	80 71	80 70	79 72	82 68	77 68	81.4 69.5	
OPAEULA 870	MAX MIN	80 66	80 68	80 67	80 66	80 66	79 67	82 72	80 69	80 67	82 66	80 64	82 64	82 65	84 70	90 65	85 64	90 63	80 62	85 61	82 61	82 68	85 70	85 69	85 68	85 67	85 66	79 66	79 70	85 68	85 67	82.7 66.5		
WAIALEE 896.3	MAX MIN	83 73	84 70	84 73	84 72	84 73	83 71	84 72	84 72	84 71	85 70	85 68	85 75	84 73	85 73	85 73	86 71	86 72	85 72	86 74	85 73	86 74	85 73	85 75	85 75	85 71	84 75	84 75	85 72	82 72	82.4 72.5			
WAILUA 847	MAX MIN	84 68	86 67	87 65	86 66	87 67	84 68	85 71	87 69	89 68	89 69	91 68	91 68	87 70	89 72	88 68	86 66	84 67	90 65	88 66	88 67	88 68	88 69	88 69	86 68	83 69	83 68	85 69	86 70	87 71	87 72	83 72	87.0 67.4	
WAIKIKI 717.2	MAX MIN	86 73	87 70	87 71	87 71	88 71	88 73	88 71	88 70	88 69	90 66	89 67	90 75	91 69	90 67	90 68	89 69	90 68	90 68	91 69	90 69	90 70	89 74	89 72	89 74	89 70	89 73	89 73	89 74	89 69	86 73	86 73	89.0 71.1	
WAIMANALO EXP FARM	MAX MIN	84 74	84 72	84 74	84 74	84 73	82 71	85 73	85 74	86 73	86 74	86 72	88 75	83 70	83 69	83 71	86 72	89 72	86 73	85 75	85 75	85 75	85 76	86 76	86 76	85 71	84 73	85 74	85 76	85 73	86 71	81 71	84.8 73.4	
ISLAND OF MOLOKAI																																		
MOLOKAI AP 524	MAX MIN																																	
ISLAND OF LANAI																																		
LANAI AIRPORT 656	MAX MIN	83 65	84 63	82 66	84 65	84 67	82 63	81 66	84 64	85 65	83 63	83 62	84 66	86 70	83 66	80 63	80 62	81 62	83 66	82 63	82 67	83 63	82 69	84 67	83 66	86 66	87 65	83 65	83 69	85 68	85 64	82 69	83.2 65.3	
LANAI CITY 672	MAX MIN																																	
ISLAND OF MAUI																																		
HALEAKALA RS 338	MAX MIN	69 45	67 46	62 40	66 42	67 47	65 48	60 51	67 48	68 46	67 45	69 47	67 56	66 52	71 51	74 55	73 55	72 55	72 55	71 54	71 42	64 40	62 49	68 48	71 42	64 45	64 43	68 43	65 49	73 59	68 45	69 55	67.7 48.5	
HANA AIRPORT 355	MAX MIN	84 72	85 71	80 71	83 67	83 72	83 72	83 73	83 71	83 70	84 70	84 69	81 76	81 76	84 72	84 74	85 73	84 72	86 74	84 70	85 70	84 70	85 73	84 74	85 73	84 73	85 73	85 73	85 73	82 73	84 72	84 72	83.7 71.8	
KANAPALI AP 453.1	MAX MIN	84 70	84 66	83 69	85 65	86 69	86 70	83 74	86 65	85 66	85 66	84 66	86 67	86 74	85 71	84 71	84 70	86 71	85 71	85 70	85 69	85 70	87 73	87 74	85 73	86 73	87 73	85 70	87 73	85 70	86 74	86 70	85.2 70.6	
KAHULUI WSO 398 AP	MAX MIN	86 73	86 75	87 74	83 71	87 74	83 75	90 75	88 72	83 67	87 68	84 77	93 77	92 74	91 69	89 69	91 69	89 68	89 70	88 67	91 72	89 67	88 76	87 75	89 74	87 74	88 76	90 73	87 74	88 75	88 73	88 74	88.1 72.2	
KAILUA 446	MAX MIN	79 69	79 68	75 65	78 65	79 67		80 68	81 68	81 68	80 67			80 65	79 60	81 67	82 70	81 69				82 70	80 69	78 68	79 68				80 70	80 68	80 69	79.7 68.3		
KEAWAKAPU BEACH 260.2	MAX MIN	90 67	92 67	86 65	88 65	86 68	92 67	92 74	88 66	88 65	85 66	87 64	87 73	91 77	92 68	91 69	90 68	90 69	90 72	88 66	89 69	87 66	88 68	90 67	90 67	92 69	93 67	92 66	94 70	89 73	91 67	91 73	89.6 68.4	
KULA SANATORIUM 267	MAX MIN	77 62	72 58	76 59	77 58	76 59	77 64	76 61	75 60	75 60	77 60	76 60	75 61	74 67	75 59	74 61	74 60	73 59	74 60	74 60	72 60	74 61	73 61	75 59	75 61	75 61	79 60	78 60	77 59	76 61	77			

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HAWAII																																	
LAHAINA 361	MAX MIN	89 70	88 69	88 69	90 68	89 71	92 69	89 72	88 69	87 69	88 69	92 68	91 71	90 71	91 71	88 70	88 69	88 69	90 71	90 70	92 70	91 69	90 71	90 71	92 71	93 72	89 70	89 70	91 69	90 71	91 69	89 74	89.8 70.0
WAILUKU 386	MAX MIN	84 71	83 72	79 72	82 71	81 72			83 72	83 73	82 73	82 71	82 74			87 68	84 69	86 69	84 71	84 72				84 72	83 73	83 74	84 71	84 73		84 73	83 71	84 72	83.3 71.7
ISLAND OF HAWAII																																	
HAWAII VOLCNS NP HD 54	MAX MIN	71 41	71 48	73 43	72 53	74 58	74 58	70 42	73 44	75 55	75 55	72 59	76 60	70 41	73 46	71 46	74 47	76 57		72 55	72 58	68 49	73 43	70 48	72 46	72 45	73 47	71 55	75 60	68 45	72 52	59	72.3 50.7
HILO WSO AP 87	MAX MIN	84 71	85 69	86 72	86 67	85 72	82 73	86 73	86 69	85 68	87 68	83 69	84 73	87 74	88 67	88 69	89 72	89 70	86 71	85 68	87 70	88 70	87 70	85 69	86 70	86 68	85 74	86 68	88 73	87 73	87 73	86.0 70.1	
KAINALIU 73.2	MAX MIN	78 60	78 60	81 62	82 62	80 63	83 63	84 67	83 67	82 61	82 62	82 65	81 68	82 65	78 63	79 61	80 65	80 62	77 60	79 62	77 61	81 62	80 66	82 66	82 62	78 63	80 61	81 62	81 64	79 64	82 63	80.6 62.8	
KAMUELA 192.2	MAX MIN	73 60	71 61	75 62	71 60	76 62			75 63	75 62	75 61	75 59	76 60				82 55	80 62	74 61				76 61	74 62	74 62	74 57	74 62			75 63	73 62	75 63	
KAPOHO BEACH 93.11	MAX MIN	87 73	90 70	87 72	87 69	87 70	86 71	81 73		87 69	88 68	88 71	81 73	85 74	89 69	89 70	91 72	92 70	95 75	91 69	89 70	85 68	83 71	87 73	88 75	89 72	87 70	87 73	87 72	86 72	87 69	88 72	87.5 71.1
KEAAU 92	MAX MIN	81 68	80 67	81 67	82 67	84 66	82 69	79 70	83 69	83 67	82 66	83 70	81 72	82 66	82 67	84 66	85 70	88 69	84 69	81 68	82 68	83 69	83 69	83 67	84 67	84 68	83 71	82 69	84 67	83 67	82.7 68.0		
KEALAKEKUA 2 28.7	MAX MIN	77 63	81 63	82 63	81 37	79 36	63	81 38	80 36	78 36	77 33	79 37	81 42			78 40	77 40	78 38	81 39	79 40				81 40	81 40	81 43	81 40	82 38		82 41	81 42	81 40	80.0 64.8
KOHALA MISSION 175.1	MAX MIN	79 68	79 67	79 68	79 66	80 68	80 70	75 70	81 69	81 68	81 66	82 71	84 71	80 68	80 65	81 65	82 68	83 70	81 67	82 67	81 68	81 69	81 70	81 71	80 71	81 70	80 70	81 70	81 70	81 70	80 68	80 69	80.6 68.5
KONA (KAILUA) 68.3	MAX MIN	86 70	87 72	87 72	87 73	86 72			87 72	86 70	86 71	86 70	86 71		87 73	83 71	87 73	88 72	84 71				88 70	88 76	87 72	86 71	86 74			88 72	87 72	85 72	86.4 71.8
KULANI CAMP 79	MAX MIN	65 52	65 46	69 51	68 42	67 51	70 50	60 49	67 50	69 47	67 42	71 55	71 55	68 34	73 46	73 46	70 41	71 46	69 53	68 50	67 51	64 47	62 48	65 53	66 48	66 53	66 51	66 56	69 60	61 49	67 46	68 55	67.4 49.1
MAUNA LOA SLOPE 085	MAX MIN	58 41	56 40	54 39	54 37	54 36	54 36	50 38	53 36	52 36	53 33	59 37	54 42	57 40	58 40	58 38	59 40	59 40	58 39	59 40	61 40	57 40	54 40	58 40	61 43	57 40	60 40	55 38	54 41	53 42	58 42	56.4 39.1	
MOUNTAIN VIEW 91	MAX MIN	79 64	74 62	81 61	77 62	80 62	77 66	80 65	80 65	80 62	80 61	77 62	77 65	80 68	80 61	80 61	82 61	83 62	81 66	81 64	80 64	80 62	80 62	75 62	78 65	78 63	79 63	80 63	80 61	79 64	80 64	79 62	79.3 63.0
NAALEHU 14	MAX MIN	81 67	78 65	82 65	82 63	83 64		82 63	80 70	81 67	82 65	86 70			81 66	81 66	80 66	81 64	80 63				81 72	81 68	82 71	82 71	83 70		85 69	82 69	83 70	81.7 66.8	
OOKALA 223	MAX MIN	79 69	78 68	78 66	80 67	80 67	79 67	78 70	79 69	80 68	81 68	81 68	82 70	78 70	81 70	80 69	81 68	81 67	82 74	82 69	82 70	82 71	79 69	70 66	76 68	77 67	77 68	78 69	78 68	79 68	78 69	79.2 68.6	
OPIHIHALE 2 24.1	MAX MIN	84 61	84 61	82 64	79 60	83 61	79 63	84 66	77 62	79 60	84 61	84 64	82 66	80 68	77 65	80 65	80 62	80 64	80 60	77 61	82 63	83 60	82 61	81 61	85 60	82 63	84 60	83 59	83 61	80 64	84 61	82 62	81.5 62.1
PAHALA 21	MAX MIN	84 63	81 62	84 66	82 61	86 65			87 65	82 65	81 63	86 68			80 65	82 64	82 66	81 69	79 63				82 63	84 70	84 66	88 66	91 64		85 65	84 67	84 69	83.5 65.1	
PUUKOHOLA HEIAU 98.1	MAX MIN			91 69	90 69	89 71	90 70	92 70	92 72	90 70	89 68	86 69	89 74	90 76	90 71	91 71	88 68		90 71	93 70	92 69	88 70	89 70	90 71	92 74		71					70.6	
SOUTH KONA 2.31	MAX MIN	79 59	82 58	83 62	80 56	79 60	80 58	80 65	83 59	82 62	78 56	83 55	80 67	77 64	81 63	80 58	82 60	81 60	78 62	75 63	76 60	76 61	79 64	79 65	82 63	81 60	83 59	82 58	85 62	82 62	81 64	85 62	80.5 60.9
UPOLU POINT USCG 159.2	MAX MIN	85 68	84 67	85 73	86 70	84 69	85 74	85 72	85 72	86 71	85 76	86 80		90 73	85 71	86 72	88 70	88 70	88 70	88 77	88 70	85 69	85 75	86 71	85 70	86 75	86 70	87 68	87 76	88 72	87 70	86 77	86.2 72.1

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		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
PACIFIC																																		
• • •																																		
EAST OF 180TH MERIDIAN																																		
CANTON ISLAND	MAX MIN	88 82	89 81	88 81	89 80	89 81	88 80	90 82	89 81	90 77	88 78	89 80	89 81	90 81	91 82	91 82	91 82	91 76	89 76		90 81	90 82	90 82	90 81	90 79	90 80		90 81	91 82	90 81	89.6 80.4			
JOHNSTON WSO AP	MAX MIN	84 79	84 76	84 79	84 75	81 77	83 79	86 79	85 78	85 78	86 79	85 80	86 79	85 79	85 79	86 77	85 78	86 79	86 79	85 79	86 80	85 79	86 80	86 79	86 80	86 79	84 76	85 75	85 80	85 75	84 77	84 80	84.9 78.2	
LEONE	MAX MIN	86 78	86 78	86 80	85 79	85 78	80 75	84 76	83 77	84 77	84 76	90 79	81 76	81 75	81 75	82 76	85 74	82 76	82 78	85 76	86 78	86 75	86 75	88 76	88 75							84.5 76.8		
FRENCH FRIGATE SHOALS	MAX MIN	83 74	84 75	85 73	85 72	87 74	88 80	87 76	88 78	88 76	88 77	86 78	86 77	87 76	87 74	87 76	87 78	85 76	89 76	90 78	90 77	90 77	86 76	87 76	86 76	86 76	88 73	84 73	85 70	88 72	88 70	89 73	86.7 75.3	
MIDWAY SAND ISLAND	MAX MIN	82 72	82 72	81 73	81 72	80 72	82 72	82 71	82 68	82 71	81 70	81 72	82 73	82 74	81 73	82 73	83 74	82 72	82 73	83 73	82 72	85 76	85 75	85 74	86 75	85 76	85 72	85 76	85 77	86 76	85 77	85 73	83.0 73.2	
PAGO PAGO WSO AP	MAX MIN	84 78	84 77	84 77	85 72	84 72	78 75	80 75	82 76	84 76	83 77	84 78	85 78	81 74	82 73	80 73	81 74	82 75	81 75	83 74	85 77	85 70	85 69	84 76	85 78	85 76	81 76	85 78	84 77	88 77	85 76	77 73	80 74	82.9 75.2
• • •																																		
WESTERN PACIFIC ISL. NORTH OF 12 N																																		
ANDERSEN AFB GUAM	MAX MIN	86 78	83 75	83 77	83 76	84 78	84 77	84 76	84 78	85 79	85 77	86 76	86 77	86 76	84 76	86 76	84 74	87 70	86 79	87 79	87 80	87 80	85 79	86 80	90 78	90 80	82 78	88 73	88 77	85 77	86 78	84 75	87 80	85.3 77.1
CLARK AFB LUZON	MAX MIN	84 70	84 75	84 73	86 73	90 75	90 75	90 75	88 73	88 72	90 73	90 75	90 75	88 77	88 77	88 77	84 73	82 73	90 75	82 73	81 73	81 75	90 75	91 77	88 75	88 75	90 75	90 75	91 75	86 73	87.5 74.5			
GUAMNAS	MAX MIN	90 79	88 79	89 79	89 78	91 80	89 79	90 79	90 80	87 80	91 80	87 80	89 78	88 78	88 78	88 78	87 79	89 78	90 81	89 80	89 81	91 80	90 79	89 80	89 79	90 77	89 79	88 78	86 79	85 79	89 80	88.9 79.1		
GUAM WSMO	MAX MIN	90 71	87 71	87 71	87 73	88 72	88 73	88 71	89 71	88 72	88 71	88 72	87 72	87 72	88 72	88 71	87 71	87 71	88 75	88 74	88 76	89 75	88 73	89 70	88 72	89 71	87 71	87 71	88 71	89 72	88 73	88 73	87.8 72.2	
SAIPAN LORAN	MAX MIN	89 72	98 62	90 76	89 76	90 76	91 75	91 73	92 69	92 74	92 73	92 73	92 76	91 81	91 76	92 75	91 76	91 76	92 76	90 78	89 81	89 76	90 75	90 75	90 75	91 74	90 75	91 77	92 81	89 74	91 76	89 77	91.0 75.1	
WAKE WSO AP	MAX MIN	89 77	89 77	84 73	91 77	90 77	89 77	91 75	85 73	82 74	85 77	83 74	80 73	87 73	85 75	87 70	89 76	89 76	88 75	88 76	89 75	89 76	90 77	89 76	90 77	90 78	90 77	91 78	90 79	90 77	88.1 75.8			
• • •																																		
CAROLINE AND MARSHALL ISLANDS																																		
ENIWETAK	MAX MIN																																	
FALALOP I. ULITHI	MAX MIN																																	
KAPINGAMARANGI ATOLL	MAX MIN	85 70	88 76	88 77	88 72	89 76	86 70	89 75	90 75	89 76	87 74	88 74	86 76	85 70	85 75	88 70	85 72	88 70	86 74	85 73	87 73	89 75	86 72	90 74	88 75	86 72	86 70	89 74	88 72	85 70	85 74	87.0 73.0		
KOROR WSO	MAX MIN	87 75	84 74	86 72	89 77	88 75	86 76	83 73	88 74	88 77	88 74	88 77	88 76	88 77	84 72	84 74	86 78	88 79	89 78	89 79	90 78	90 75	88 78	88 76	88 75	88 76	86 77	85 77	86 76	85 74	85 72	84 76	86.8 75.6	
KWAJALEIN MISSILE RGN	MAX MIN	86 77	87 80	86 75	87 77	88 80	89 80	88 77	88 78	87 79	87 80	87 78	87 79	87 80	87 78	87 75	88 79	88 81	88 79	87 81	88 81	88 77	86 77	87 80	86 77	87 80	88 77	88 78	88 78	89 79	87 78	88 78	87.3 78.5	
LELE I. KUSAIE	MAX MIN	86 76	88 76	90 77	91 75	91 76	89 75	89 74	90 76	92 77	90 77	91 77	92 77	89 76	87 75	87 74	89 76	91 76	90 76	89 75	90 75	87 75	89 79	91 77	89 75	87 75	91 70	89 75	91 77	91 75	91 74	91 76	89.7 75.6	
MAJURO WSO AP	MAX MIN	85 74	85 73	86 77	86 76	87 79	87 73	87 75	87 76	82 75	86 76	86 78	87 77	88 77	88 75	86 76	87 75	88 76	86 74	87 78	88 75	87 75	87 76	87 76	87 76	87 74	87 77	85 76	89 79	87 76	89 76	86.6 75.7		
METALANIM	MAX MIN	87 81	85 79	88 80	86 82	84 78	88 80	85 77	87 81	88 77	87 79	88 80	85 79	86 80	88 83	85 82	87 78	87 77	88 79	88 82	86 81	86 79	85 83	87 81	88 79	85 82	87 83	87 81	88 78	88 80	86 84	87 82	86.4 80.3	
PONAPE WSO	MAX MIN	91 74	91 73	90 73	90 73	92 72	89 73	90 73	88 73	91 72	91 72	91 73	90 75	90 73	90 73	91 75	89 73	89 74	89 74	90 70	91 73	91 76	91 73	93 75	88 74	88 73	86 73	86 73	89 71	90 73	88 72	90 76	89.9 73.2	
SATAVAN ATOLL	MAX MIN																																	
TRUK. MOEN I. WSO AP	MAX MIN	90 78	86 76	88 75	89 77	83 76	88 76	91 75	91 75	87 75	91 75	91 75	87 73	84 76	88 75	88 75	89 78	90 77	82 72	89 75	89 76	89 77	90 76	90 73	88 75	90 74	90 74	88 76	89 78	89 76	86 74	88.4 75.4		
WOLEAI ATOLL	MAX MIN	89 73	88 76	89 75	89 75	88 72	90 75	87 73	89 73	90 72	88 73	89 77	91 76	88 74	89 73	82 75	85 73	88 79	87 74	89 76	90 76	91 74	91 75	91 74	87 73	87 75	90 70	86 77	88 74	85 75	86 77	88.3 74.5		
YAP WSO AP	MAX MIN	88 75	88 75	85 72	88 72	88 70	88 74	88 74	89 77	89 79	86 75	89 74	85 75	88 72	86 74	86 75	82 74	88 75	87 75	88 76	88 75	88 76	88 74	88 75	87 74	88 75	88 75	87 75	83 72	86 74	84 74	87.0 74.4		

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		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31			
HAWAII ISLAND OF KAUAI																																			
LIHUE WSO 1020.1 AP		EVAP	.45	.31	.47	.34	.35	.38	.37	.27	.32	.37	.36	.36	.32	.15	.25	.40	.30	.39	.39	.40	.36	.43	.38	.46	.41	.52	.47	.44	.31	.38	.39	11.50	
		WIND	247	233	205	183	210	186	227	202	150	143	138	106	131	125	75	102	103	89	136	152	141	213	205	227	309	276	246	235	212	197	252	5656	
		MAX	89	89	89	91	89	89	89	87	89	91	92	92	85	92	92	92	92	93	92	92	92	92	92	92	91	94	93	90	90	88	89	90.6	
		MIN	69	70	68	67	69	69	69	69	70	70	69	70	70	71	72	68	69	72	68	72	68	72	68	72	69	71	70	68	72	72	70	70	69.8
ISLAND OF OAHU																																			
HONOLULU OBSERV 702.2		EVAP	.45	.45	.45	.42	.35	.30	.45	.37	.38	.35	.45	.30	.22	.34	.45	.35	.40	.30	.45	.36	.41	.41	.45	.45	.45	.34	.38	.30	.42	.30	.18	11.68	
		WIND	44	40	30	30	34	36	55	34	24	27	28	28	33	36	53	25	22	32	28	29	27	38	34	45	64	57	46	29	33	40	48	1129	
		MAX	95	93	91	94	94	90	93	92	92	93	95	90	92	93	92	95	97	97	97	95	95	95	93	94	94	95	89	93	89	95	94	90	93.2
		MIN	69	70	69	68	70	70	70	71	70	69	68	69	73	71	69	71	70	71	69	70	71	70	69	69	70	69	69	70	71	71	73	70.0	

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# EVAPORATION AND WIND

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STATION	DAY OF MONTH																															TOTAL OR AVG.		
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31			
PACIFIC																																		
• • • EAST OF 180TH MERIDIAN																																		
JOHNSTON WSO AP	EVAP	.42	.26	.35	.36	.14	.37	.26	.45	.30	.30	.38	.35	.39	.36	.32	.27	.30	.37	.40	.42	.32	.45	.38	.35	.33	.42	.41	.43	.09	.33	.32	10.60	
	WIND	263	198	209	173	220	222	182	161	48	122	175	168	175	143	114	100	134	151	156	203	217	179	205	268	253	265	227	225	204	238	200	5798	
	MAX	93	87	89	83	89	90	91	94	95	94	91	92	92	94	93	94	92	92	93	91	91	90	91	89	86	89	90	89	84	92	90	90.6	
	MIN	73	72	72	72	72	72	73	73	72	73	74	73	73	72	73	74	74	74	73	73	73	73	74	74	74	75	72	73	72	73	72	73.0	
• • • WESTERN PACIFIC ISL. NORTH OF 12 N																																		
GUM WSMO	EVAP	.29	.23	.20	.22	.21	.31	.22	.26	.19	.14	.20	.16	.25	.27	.21	.24	.15	.28	.22	.31	.27	.25	.25	.18	.15	.12	.15	.27	.24	.29	.26	6.99	
	WIND	34	65	61	49	56	74	44	43	40	25	21	35	49	49	44	28	21	52	67	102	104	80	59	47	21	20	31	31	47	69	84	1552	
	MAX	97	95	90	96	95	95	97	96	92	91	91	93	95	91	89	93	93	90	96	93	94	95	97	94	89	90	96	92	92	91	93	93.3	
	MIN	74	73	74	74	74	74	73	74	74	75	74	75	74	75	74	73	74	74	76	74	74	74	74	76	76	77	79	78	75	76	75	74	74.6

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								TEMP.	PRECIP.	EVAP.	SPECIAL (SEE NOTES)		
HAWAII													
ISLAND OF KAUAI													
ALEXANDER RESV. 983		0140	02	KOLOA	2	21 57	159 32	1610				C	MCBRYOE SUGAR CO.
ANAHOLA 1114	A	0145	01	KAWAIIHAU	1	22 08	159 18	180		7A		C	LIHUE PLANTATION CO
BRYOESWOOD STA 985	A	0240	02	KOLOA	2	21 56	159 32	720		7A			MC BRYOE SUG CO LTO
EAST LAWA 934	A	0456	02	KOLOA	2	21 55	159 30	440		7A			MC BRYOE SUG CO LTO
ELEELE 927	A	0470	02	KOLOA	2	21 54	159 35	150		6A			MC BRYOE SUG CO LTO
HALAULA 1110	A	0935	01	KAWAIIHAU	1	22 07	159 19	253		7A			LIHUE PLTN CO LTO
HALENANAO 1006	A	1038	02	LIHUE	2	21 58	159 26	490		8A			LIHUE PLANTATION CO
HANAHANAPUNI 1055.2		1140	02	KAUAI	2	22 03	159 25	600				C	LIHUE PLANTATION CO LTO
HANAIEI TUNNEL 1053	A	1170	01	KAWAIIHAU	1	22 05	159 28	1218				5	LIHUE PLTN CO LTO
HUKIPI 945		2161	03	WAIMEA	3	21 59	159 41	800		8A			KEKAHA SUGAR CO LTO
ILIILILUA INTAKE 1050	A	2222	02	LIHUE	2	22 02	159 28	1050		VAR			LIHUE PLTN CO LTO
INTAKE WAINIHA PC 1086A		2227	01	HANAIEI	1	22 09	159 34	690		WI			MC BRYOE SUG CO LTO
KANALOHULUHULU 1075		3099	03	WAIMEA	3	22 08	159 40	3600	7A	7A		C	STATE DIVISION OF PARKS
KANEHA RESERVOIR 1092	A	3104	01	KAWAIIHAU	1	22 08	159 23	830		7A			LIHUE PLANTATION
KAPAA STABLES 1104	A	3159	01	KAWAIIHAU	1	22 05	159 20	175		7A		C	LIHUE PLTN CO LTO
KEALIA 1112	A	3982	01	KAWAIIHAU	1	22 06	159 19	9		7A			LIHUE PLTN CO LTO
KEKAHA 944		4272	03	WAIMEA	3	21 58	159 43	9		8A		C	KEKAHA SUGAR CO LTO
KILAUEA 1134	A	4561	01	HANAIEI	1	22 13	159 25	320		7A		C	NICK RAPOZO
KILAUEA POINT 1133		4568	01	HANAIEI	1	22 14	159 24	180	8A	8A			MELVALEIGH SEILLEMAYER
KOLO 1033		4735	03	WAIMEA	3	22 04	159 46	36		7A			KEKAHA SUGAR CO LTO
KOLOA 936	A	4742	02	KOLOA	2	21 55	159 28	240		8A			MCBRYOE SUGAR CO
KOLOA LN (MAK) 940.1		4748	01	KAUAI	2	21 52	159 27	52	7A	7A			AUSCG LORAN STATION
KOLOA MAUKA 994	A	4750	02	KOLOA	2	21 57	159 29	640		7A			MCBRYOE SUGAR COMPANY
KUKUIULA 935	A	4950	02	KOLOA	2	21 54	159 30	100		6A			MC BRYOE SUG CO LTO
LIHUE VARIETY ST 10621A		5560	02	LIHUE	2	22 01	159 23	380		7A		C	LIHUE PLANTATION CO LTO
LIHUE 1020	A	5575	02	LIHUE	2	21 59	159 22	207		7A			LIHUE PLTN CO LTO
LIHUE WSO 1020.1 AP	R	5580	02	LIHUE	2	21 59	159 21	103	MIO	MIO	MIO	J	NATL WEATHER SERVICE
MAKAWILI 965	A	5864	03	WAIMEA	3	21 55	159 38	140		7A			OLOKELE SUGAR CO
MANA 1026		6082	03	WAIMEA	3	22 02	159 46	20	8A	8A			KEKAHA SUGAR CO LTO
MDIHI UPR CROSS 1083	A	6433	01	WAIMEA	3	22 07	159 36	3500		MIO			U S GEO SURVEY
MOLOAA 1145	A	6529	01	KAWAIIHAU	1	22 11	159 20	330		7A			THEODORE JAVELLANA JR
MOUNT WAIALEALE 1047	R	6565	03	WAIMEA	2	22 04	159 30	5148		MIO			U. S. GEO. SURVEY
NIU RIGGE 1035		6850	03	WAIMEA	3	22 02	159 44	1250	6A	6A			KEKAHA SUGAR CO LTO
N WAILUA OITCH 1051	A	6888	02	LIHUE	2	22 04	159 28	1110		7A			LIHUE PLTN CO LTO
N WAILUA RIVER 1055	A	6893	02	KIHUE	2	22 04	159 26	650				S	LIHUE PLTN CO LTO
PH WAINIHA 1115		8155	01	HANAIEI	1	22 12	159 34	101		6A		C	MC BRYOE SUG CO LTO
PRINCEVILLE RANCH 1117		8165	01	HANAIEI	1	22 13	159 29	295		9A		C	PRINCEVILLE RANCH INC
PUEHU RIGGE 1040		8205	03	WAIMEA	3	22 01	159 42	1660		8A			KEKAHA SUGAR CO LTO
PUHI 1013	A	8217	02	LIHUE	2	21 58	159 24	329		8A			LIHUE PLANTATION CO
STABLE CAMP 1055.1		8694	02	LIHUE	2	22 04	159 27	740				C	CLOSED 7/27/77
WAHIAWA 930	A	8941	02	KOLOA	2	21 54	159 34	215		7A		C	MC BRYOE SUG CO LTO
WAIHI LOWER 1054		8958	02	LIHUE	2	22 01	159 27	965	6A	6A			LIHUE PLTN CO LTO
WAIHI UPPER 1052		8966	02	LIHUE	2	22 01	159 28	780		6A			LIHUE PLTN CO LTO
WAIWA 943		9253	03	WAIMEA	3	21 59	159 43	10		8A			KEKAHA SUGAR CO LTO
WAILUA KAI 1065	A	9467	02	LIHUE	2	22 02	159 21	50		7A			LIHUE PLANTATION
WAIMEA 947		9629	03	WAIMEA	3	21 58	159 41	20		8A			KEKAHA SUGAR CO.
WEST LAWA 931	A	9955	02	KOLOA	2	21 54	159 31	210		6A			MC BRYOE SUG CO LTO
ISLAND OF OAHU													
AHUIMANU LOOP 839.12		0055	01	KOOLAUPOKO	1	21 26	157 51	320				C	DOON MITCHELL
ALOHA STADIUM-HALAWA		0172	03	OAHU	3	21 23	157 56	40	8A	8A			ALOHA STADIUM
BERETANIA PUMPING STA		0211	02	HONOLULU	2	21 19	157 51	20		9A			BOARD OF WTR SUPPLY
B Y U LAIE 903.1		0240	01	KOOLAUPOKO	1	21 39	157 56	20	12M	12M			B Y U-HAWAII CAMPUS
CAMPBELL INO PK 702.5		0248	02	OAHU	3	21 19	158 07	10		8A			CHEVRON U S A INC
CAMP 84 807	A	0300	03	EWA	3	21 26	158 04	760		6A		C	OEL MONTE CORPORATION
COCONUT ISLAND 840.1		0350	01	KOOLAUPOKO	1	21 26	157 47	15		8A			H INST MARINE BIOLOGY
DOWSETT HIGHLDS 780.8		0438	02	HONOLULU	2	21 21	157 50	565				C	J.L. BANNING
EWA PLANTATION 741		0507	03	EWA	3	21 21	158 02	5	9A	7A			OAHU SUGAR COMPANY
HALAWA SHAFT 771.2		0964	02	HONOLULU	2	21 23	157 54	170				C	BOARD OF WATER SUPPLY
HELEMANO INTAKE 881	A	1384	05	WAIALUA	5	21 33	158 00	1274		WI		C	WAIALUA SUGAR CO. INC.
HOKULOA 725.2	A	1540	03	EWA	3	21 24	158 06	2220				C	H. V. VON HOLT
HONOLULU OBSERV 702.2		1918	03	EWA	3	21 19	158 00	5		9A	9A		NATIONAL WEATHER SERV
HONOLULU WSO 703 AP	A	1919	02	HONOLULU	2	21 20	157 55	7	MIO	MIO		C	NATL WEATHER SERVICE
KAAHLAKEI 724.6		2269	02	HONOLULU	2	21 18	157 43	10				C	MRS. MILLIE ZAPATA
KAENA POINT 841.3		2410	04	WAIALUA	4	21 34	158 15	1240		9A			U S AIR FORCE
KAHANA 883	A	2462	01	KOOLAULOA	1	21 31	157 54	800		WI			WAIHOLE WTR CO LTO

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								TEMP.	PRECIP.	EVAP.	SPECIAL (SEE NOTES)	
ISLAND OF OAHU												
KAHUKU 912	A 2570	01	KOOLAULOA	1	21 42	157 59	15				C	KIULIMA HOTEL
KAILUA FIRE STA 791.3	2683	01	KOOLAUPOKO	1	21 24	157 45	10		8A		C	KAILUA FIRE STATION
KALAMA VALLEY 724-13	2842	02	OAHU	2	21 18	157 41	75				C	GRADEN HARGER
KALIHI RES SITE 777	R 2960	02	HONOLULU	2	21 23	157 50	910		M10			BOARD OF WTR SUPPLY
KANEOME MAUKA 781	3113	01	KOOLAUPOKO	1	21 25	157 49	325	7A	7A			STATE HOSPITAL
KAPALAMA 773	A 3268	02	HONOLULU	2	21 21	157 52	614		8A			KAMEHAMEHA SCHOOLS
KAWAIHAPAI 841	A 3734	05	WAIALUA	5	21 35	158 11	40		7A			WAIALUA SUGAR CO. INC.
KEMOO CAMP 8 855	A 4318	05	WAIALUA	5	21 33	158 05	725		7A			WAIALUA SUGAR CO. INC.
KOOLAU DAM 833	A 4766	05	WAIHAWA	5	21 30	157 58	1160		8A			C & F OFFICER HEOG
LULUKU 781.7	5655	01	KOOLAUPOKO	1	21 24	157 49	240				C	NATIONAL WEATHER SERV
MAKAHA PUMP 800.2	A 5782	04	OAHU	4	21 29	158 12	400		8A		C	CAPITAL INVESTMENT CO.
MAKAKILO 730.1	5789	03	OAHU	3	21 21	158 06	300		6A			NEAL ADAMS
MANOA 712.1	6122	02	HONOLULU	2	21 19	157 49	220		7A			MRS. JOHN H. BEAUMONT
MANOA LYON ARBORETUM	6128	02	OAHU	2	21 20	157 48	500	8A	8A			LYON ARBORETUM
MANOA TUNNEL 2 716	R 6130	02	HONOLULU	2	21 20	157 48	650		M10			BOARD OF WTR SUPPLY
MAUNAWILI 787.1	6222	01	KOOLAUPOKO	1	21 21	157 46	395				C	EXP. STA. H.S.P.A.
MOANALUA 770	6395	02	HONOLULU	2	21 21	157 54	20		9A			JOHN A. ROXBURGH
MOMILANI 835.1	6547	03	OAHU	3	21 25	157 58	325				C	CHESTER T. KAINUMA
MOUNT KAALA 844	6553	04	WAIANAE	4	21 31	158 09	4015				C	FEDERAL AVIATION ADM
NUUANU RES 4 783	6928	02	HONOLULU	2	21 21	157 49	1048		M10			BOARD OF WTR SUPPLY
NUUANU RESERV S 775	A 6933	02	HONOLULU	2	21 21	157 50	410		WI			BOARD OF WTR SUPPLY
OPAEULA 870	A 7150	05	WAIALUA	5	21 34	158 02	1060	7A	7A		C	WAIALUA SUGAR CO. INC.
PAIKO CR 723.4	7540	02	HONOLULU	2	21 17	157 44	10		6P			O. L. GRUBB
PALI GOLF COURSE 788.1	7656	01	OAHU	1	21 23	157 47	480		10A			CC DEPT. PKS RECREATION
PALOLO VALLEY 718	R 7664	02	HONOLULU	2	21 20	157 46	995		M10			BOARD OF WTR SUPPLY
PAUOA FLATS 784	R 7810	02	HONOLULU	2	21 21	157 48	1640		M10			BOARD OF WTR SUPPLY
PUNALUU PUMP 905.2	8314	01	KOOLAULOA	1	21 35	157 54	20				C	MRS. DAVID DELAO
PUNCHBOWL CRATER 709	A 8316	02	HONOLULU	2	21 19	157 51	360		8A			NAT. MEM. CEMETERY
PUKUKA HEIGHTS 896.4	8342	01	WAIALUA	1	21 39	158 02	900				C	JACK N. WHEELER
PUU MANAWAHUA 725.6	8500	03	OAHU	3	21 23	158 05	2080		8A			HUGH HAMILTON
SEA LIFE PARK 724.14	8665	01	OAHU	1	21 19	157 40	40				C	SEA LIFE PARK
TANTALUS 2 780.5	8738	02	HONOLULU	2	21 20	157 50	1325		7A			R. E. WHITE
UNIV OF HAWAII 713	A 8815	02	HONOLULU	2	21 18	157 49	79		8A			DEPT. OF GEOSCIENCE
UPPER WAIHAWA 874.3	8838	05	OAHU	5	21 31	158 01	1115		6A			W. B. RUTHERFORD
WAIHAWA DAM 863	A 8945	05	WAIHAWA	5	21 30	158 03	854		7A		C	WAIALUA SUGAR CO. INC.
WAIHOLE 837	A 8964	01	KOOLAUPOKO	1	21 28	157 53	745		8A		C	WAIHOLE WTR CO. LTO
WAIHOLE KAHALA 715	9185	02	HONOLULU	2	21 17	157 47	40		7A			SPENCER TINKER
WAIALEE 896.3	9190	01	KOOLAULOA	1	21 41	158 02	33	8A	8A			WAIALEE LIVESK RES FARM
WAIALUA 847	A 9195	05	WAIALUA	5	21 35	158 07	32	7A	7A		C	WAIALUA SUGAR CO. INC.
WAIANAE 798.2	A 9231	04	WAIANAE	4	21 27	158 11	10		7A			BEN MAYES
WAIANAE KAWIWI 801.1	9234	04	OAHU	4	21 28	158 11	40				C	CLOSED 7/13/77
WAIHAWA 836	A 9261	03	EWA	3	21 28	157 56	800		M0			WAIHOLE WTR CO. LTO
WAIKANE 885	A 9340	01	KOOLAUPOKO	1	21 30	157 53	760		WI			WAIHOLE WTR CO. LTO
WAIKIKI 717.2	9397	02	HONOLULU	2	21 16	157 49	10	8A	8A			HONOLULU ZOO
WAILUPE VLY SCH 723.6	9500	02	HONOLULU	2	21 18	157 45	180				C	WAILUPE VALLEY SCHOOL
WAIMANALO EXP FARM	9523	01	KOOLAUPOKO	1	21 20	157 43	60	7A	7A			WAIMANALO EXP FARM
WAIMANALO NONOKI 795.2	9534	01	OAHU	1	21 20	157 43	120				C	WAIMANALO EXP FARM
WAIMER 892	A 9593	05	WAIALUA	5	21 38	158 04	330		7A		C	WAIALUA SUGAR CO. INC.
WAIPIHU 750	A 9738	03	EWA	3	21 23	158 01	59		8A			WAIHOLE WATER COMPANY
WILHELMINA RISE 721	R 9980	02	HONOLULU	2	21 18	157 47	1100		M10			BOARD OF WTR SUPPLY
ISLAND OF MOLOKAI												
KALAUAPA 563	A 2896	01	MOLOKAI	1	21 12	156 59	30		8A			KALAUAPA SETTLEMENT
KAUNAKAKAI 536	3541	01	MOLOKAI	1	21 06	157 01	12		7A			MOLOKAI RANCH LTO
KAUNAKAKAI MAUKA 536.5	3547	01	MOLOKAI	1	21 06	157 01	70				C	MOLOKAI GENERAL HOSP.
KEONELELE PENS 551	A 4394	01	MOLOKAI	1	21 12	157 12	560		VAR			MOLOKAI RANCH. LTO.
KUALAPUU 534	A 4778	01	MOLOKAI	1	21 09	157 02	825		7A		C	OEL MONTE CORPORATION
MAUNALO 511	A 6190	01	MOLOKAI	1	21 08	157 13	1070		9A		C	MOLOKAI RANCH COMPANY
MOLOKAI AP 524	6534	01	MOLOKAI	1	21 09	157 06	450	8A	8A			ALOHA AIRLINES
PUU O HOKU RANCH 542.1	8549	01	MOLOKAI	1	21 09	156 44	700		6A		C	PUU O HOKU RANCH
WAIKOLU 540	A 9404	01	MOLOKAI	1	21 08	156 55	3550		WI			MOLOKAI RANCH COMPANY
ISLAND OF LANAI												
KANEPUU 690	A 3130	01	LAHAINA	1	20 52	157 00	1650		WI			U S O A
KAUMALAPAU HAR80R 658	3461	01	LAHAINA	1	20 47	157 00	30		8A		C	OOLE COMPANY
LANAI AIRPORT 656	5275	01	LAHAINA	1	20 48	156 57	1300	8A	8A			HAWAIIAN AIR
LANAI CITY 672	A 5286	01	LAHAINA	1	20 50	156 55	1620	7A	7A		C	OOLE COMPANY
LANAIHALE 684	A 5301	01	LAHAINA	1	20 49	156 53	3370		WI			U S O A

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								TEMP.	PRECIP.	EVAP.	SPECIAL (SEE NOTES)	
ISLAND OF LANAI												
MAHANA 694	A 5704	01	LAHAINA	1	20 52	156 55	1430		MO			U S O A
MALAUER 676	A 6012	01	LAHAINA	1	20 46	156 55	1150		WI			U S O A
WAIKAEKUA 685	A 9021	01	LAHAINA	1	20 47	156 52	2000		WM			KOELE COMPANY
ISLAND OF MAUI												
AUWAHI 252	A 0175	02	HANA	2	20 37	156 20	2060		VAR			ULUPALAKUA RANCH
HAELARAU 477	0790	04	LAHAINA	4	20 57	156 36	2980				5	MAUI LAND-PINEAPPLE CO
HALEAKALA 8 E S 434	A 0995	01	MAKAWAO	1	20 51	156 18	2100		7A			U OF H AGRIC EXP STA
HALEAKALA RANCH 432	A 0999	01	MAKAWAO	1	20 50	156 19	1850		8A			HALEAKALA RANCH CO
HALEAKALA RS 338	1004	02	MAKAWAO	2	20 46	156 15	7030	8A	8A			HALEAKALA NAT PARK
HALIIMAILE 423	A 1075	01	MAKAWAO	1	20 52	156 21	1070		3A			MAUI LAND-PINEAPPLE CO
HAMAKUAPOKO 485	1086	01	MAKAWAO	1	20 55	156 21	320		5A			HAWAIIAN COM & SUG CO
HANA 354	A 1122	01	HANA	1	20 45	155 59	120		8A		C	HARRY HASEGAWA
HANA AIRPORT 355	1125	01	HANA	1	20 48	156 01	61	8A	8A			ROYAL HAWAIIAN AIRLINES
HOLUA CABIN 259.5	A 1552	02	MAKAWAO	2	20 45	156 13	6930		MO			HALEAKALA NATL PARK RGS
HONOKOHU 480	A 1882	04	LAHAINA	4	20 58	156 36	870		MO			MAUI LAND-PINEAPPLE CO
HONOKOHU 493	A 1887	04	LAHAINA	4	21 00	156 39	135		6A			MAUI LAND-PINEAPPLE CO
HONOLUA FLD 49 494	1914	04	LAHAINA	4	21 01	156 38	125				5	MAUI LAND-PINEAPPLE CO
HONOMANU GULCH 341	A 1935	01	MAKAWAO	1	20 47	156 14	6280		MO			HALEAKALA RANCH CO
IAO NEEDLE 387.2	2208	03	WAILUKU	3	20 53	156 33	1080				C	STATE DIVISION OF PARKS
KAANAPALI AP 453.1	2307	04	LAHAINA	4	20 56	156 42	8	8A	8A			AMFAC PROPERTIES INC
KAHOMA INTAKE 374	A 2552	04	LAHAINA	4	20 54	156 38	2000		WI			PIONEER MILL CO LTD
KAHULUI W50 398 AP	R 2572	03	WAILUKU	3	20 54	156 26	48	MID	MID		C J	NATL WEATHER SERVICE
KAILIILI 436	A 2630	01	MAKAWAO	1	20 51	156 16	2520		MO			E MAUI IRR CO LTD
KAILUA 446	2679	01	MAKAWAO	1	20 54	156 13	700	7A	7A			E MAUI IRR CO LTD
KAUAULA INTAKE 375	A 3433	04	LAHAINA	4	20 53	156 38	1585		WI			PIONEER MILL CO LTD
KAUPO RANCH HOUSE 259	3576	02	HANA	2	20 39	156 08	1020				C	KAUPO RANCH
KEAHUA 410	3910	03	MAKAWAO	3	20 52	156 23	480		5A			HAWAIIAN COM & SUG CO
KEANAE 346	A 4091	01	HANA	1	20 50	156 10	980		MO			E MAUI IRR CO LTD
KEAWAKAPU BEACH 260.2	4193	02	MAKAWAO	2	20 42	156 27	20	8A	8A		C	ALLEN L CORELL
KIHEI 311	4489	03	WAILUKU	3	20 47	156 27	90		7A			HAWAIIAN COM & SUG CO
KIPAHULU 258	4634	01	HANA	1	20 39	156 04	260		7A			HANA RANCH-KIPAHULU SEC
KUKUI 380	4887	04	LAHAINA	4	20 54	156 35	5788				5	MAUI LAND-PINEAPPLE CO
KULA SANATORIUM 267	5006	02	MAKAWAO	2	20 42	156 22	3004	7A	7A			KULA SANATORIUM
LAHAINA 361	5177	04	LAHAINA	4	20 53	156 41	45	7A	7A		C	PIONEER MILL CO LTD
LAUNIUPOKO INTAKE 376	A 5404	04	LAHAINA	4	20 51	156 37	1280		WI			PIONEER MILL CO LTD
LAUNIUPOKO VILLAGE 372A	5408	04	LAHAINA	4	20 51	156 39	220		7A			PIONEER MILL CO LTD
LUPI UPPER 442	A 5665	01	MAKAWAO	1	20 53	156 15	1240		MO			E MAUI IRR CO LTD
MAHINAHINA 466	A 5715	04	LAHAINA	4	20 57	156 40	715		7A			PIONEER MILL CO LTD
MOKUPEA 475	6521	04	LAHAINA	4	20 59	156 37	1290				5	MAUI LAND-PINEAPPLE CO
NAKALELE FIELD 60 497	A 6645	04	LAHAINA	4	21 02	156 36	340		VAR			MAUI LAND-PINEAPPLE CO
OLINDA 332	A 7040	01	MAKAWAO	1	20 48	156 17	4127		VAR			EAST MAUI IRRIGATION CO
OWALU 296.1	7059	04	LAHAINA	4	20 49	156 37	20		7A			PIONEER MILL CO LTD
PAAKEA 350	7194	01	HANA	1	20 49	156 07	1260		VAR		C	E MAUI IRR CO LTD
PAIA 406	7566	01	WAILUKU	1	20 55	156 23	170		6A			HAWAIIAN COM & SUG CO
PANILEIHULU 259.2	A 7674	02	HANA	2	20 41	156 08	3570		MO			KAUPO RANCH CO.
PEAHI 488.6	7952	01	MAUI	1	20 54	156 17	830		WI		C	BERNARD RUPLINGER
POHAKEA BRIDGE 307.2	A 8060	03	WAILUKU	3	20 49	156 31	167		6A			WAILUKU SUGAR CO
POLIPOLI SPRINGS 267.2A	8070	02	MAKAWAO	2	20 41	156 20	6150		VAR			STATE DIV OF FORESTRY
PUOHOKAMOA 2 343	A 8336	01	HANA	1	20 50	156 13	2980		MO			E MAUI IRR CO LTD
PUUNENE 396	8543	03	WAILUKU	3	20 53	156 27	60		7A			HAWAIIAN COM & SUG CO
PUU PAKI 352	A 8553	01	HANA	1	20 46	156 03	2160				5	EAST MAUI IRRIGATION CO
SPRECKELSVILLE 400.2	8688	03	WAILUKU	3	20 54	156 25	85		8A			HAWAIIAN COM & SUG CO
TWIN GATES 261.3	A 8742	03	MAKAWAO	3	20 46	156 23	1310		VAR			KANOOLU RANCH
UH AGRI RES CNTR 324.5	8743	02	MAUI	2	20 46	156 20	3050				C	UH MAUI AGRI RESCH CNTR
UKULELE 333	A 8744	01	MAKAWAO	1	20 48	156 15	5230		MO			HALEAKALA RANCH CO
UKUMEHAME 301	A 8750	04	LAHAINA	4	20 48	156 35	75		7A			PIONEER MILL CO LTD
ULUPALAKUA RANCH 250	8760	02	MAKAWAO	2	20 39	156 24	1900		8A		C	ULUPALAKUA RCH CO LTD
WAHIKULI 364	A 8955	04	LAHAINA	4	20 54	156 40	580		8A			PIONEER MILL CO LTD
WAIHEU CAMP 484	A 9275	03	WAILUKU	3	20 55	156 31	320		6A			WAILUKU SUGAR CO
WAIHEE VALLEY 482	A 9315	04	WAILUKU	4	20 57	156 32	300		6A			WAILUKU SUGAR CO
WAIKAMOI 449	A 9332	01	HANA	1	20 52	156 12	1200		MO			E MAUI IRR CO LTD
WAIKAMOI OAM 336	A 9335	01	MAKAWAO	1	20 49	156 14	4320		VAR		C	EAST MAUI IRRIGATION CO
WAIKAPU 390	A 9376	03	WAILUKU	3	20 51	156 31	370		6A			WAILUKU SUGAR CO
WAILUA IKI 348	A 9460	01	HANA	1	20 48	156 09	2630				5	EAST MAUI IRRIGATION CO
WAILUKU 386	A 9484	03	WAILUKU	3	20 54	156 30	180	7A	7A			WAILUKU SUGAR COMPANY
WAIOPAI RANCH 256	A 9765	02	HANA	2	20 38	156 12	220		OC			HALEAKALA RANCH CO

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								TEMP.	PRECIP.	EVAP.	SPECIAL (SEE NOTES)	
ISLAND OF HAWAII												
AHUA UMI 75	A 0040	05	N KONA	5	19 38	155 47	5220		MO			W.H. GREENWELL RANCH
CITY OF REFUGE 27.4	0344	04	S KONA	4	19 25	155 55	15		9A			NAT HISTORICAL PARK
HA'INA 214	0840	01	HAMAKUA	1	20 06	155 28	461		8A			HONOKAA SUGAR CO
HAKALAU 142	0905	02	S HILO	2	19 54	155 08	105		7A			MAUNA KEA SUGAR CO
HALEMAUMAU 52	A 1033	03	KAU	3	19 24	155 17	3648		MO			HAWAII NAT PARK
HALEPOHAKU 111	A 1065	02	HAMAKUA	2	19 46	155 28	9220		3P			MAUNA KEA OBSERVATORY
HA'S FARM 85.3	1270	02	HAWAII	2	19 40	155 06	580		8A			RICHARD HA JR
HAWAII VOLCNS NP HQ 54	1303	02	KAU	2	19 26	155 16	3971	8A	8A		C	HA VOLCANOES NAT PK HQS
HAWI 168	A 1339	01	N KOHALA	1	20 14	155 50	580		6A		C	K L 80ND
HILO COUNTRY CLUB 86.6	1487	02	HAWAII	2	19 41	155 10	1600		7A		C	REX WILLS II
HILO WSO AP 87	R 1492	02	S HILO	2	19 43	155 04	36	MIO	MIO		C	J NATL WEATHER SERVICE
HOLUALOA 70	A 1557	04	N KONA	4	19 38	155 55	3220		MO			STATE OIV OF FORESTRY
HOLUALOA BEACH 68	A 1562	04	N KONA	4	19 37	155 59	14		7A			CAPT COOK CATTLE CO
HONAUNAU 27	1665	04	S KONA	4	19 27	155 53	1089		7A			SHIGETO L TANAKA
HONOHINA 137	1701	02	N HILO	2	19 56	155 09	300		7A			MAUNA KEA SUGAR CO
HONOMU MAUKA 138	1960	02	S HILO	2	19 51	155 09	1100		7A		C	MAUNA KEA SUGAR CO
HONUAULA 71	A 2047	04	N KONA	4	19 40	155 53	6250		MO			STATE OIV OF FORESTRY
HUALALAI 72	A 2151	04	N KONA	4	19 42	155 52	8190		MO			STATE OIV OF FORESTRY
HUEHUE 92.1	A 2156	04	N KONA	4	19 45	155 59	1960		6A			HUEHUE RANCH
KAAALA IKI 12	A 2249	03	KAU	3	19 08	155 34	1340		WI			KAU SUGAR COMPANY, INC
KAAWALO 29	A 2327	04	SOUTH KONA	4	19 30	155 55	1340		8A			CAPT COOK INVESTMENT CO
KAHIAWAI MAUKA 3.8	2512	03	KAU	3	19 08	155 46	4120				C	RUSSELL P. SMITH
KAHUA RANCH HQTRS	2600	01	HAWAII	1	20 08	155 48	3240				C	KAHUA RANCH COMPANY
KAINALIU 73.2	2751	04	N KONA	4	19 32	155 56	1500	7A	7A			KONA EXPERIMENT STA
KALAOA 69.22	2887	04	HAWAII	4	19 44	155 59	2000		8A			FLOYD W MC COY
KALAPANA 1 67.8	2894	02	S HILO	2	19 20	155 02	10		VAR			HAWAII VOLCANOES NAT PK
KAMAOKA 2 5	A 3048	03	KAU	3	19 02	155 40	1375		WI			PARKER RCH-KAPAPALA OIV
KAMUELA 192.2	3077	01	S KOHALA	1	20 01	155 40	2670	6A	6A			PARKER RANCH
KAPAPALA RANCH 36	A 3300	03	KAU	3	19 17	155 27	2140		6A			PARKER RCH-KAPAPALA OIV
KAPOHO BEACH 93.11	3368	02	HAWAII	1	19 30	154 49	10	8A	8A			H E MC NICHOLS
KAPOHO LANDING 93.5	A 3369	02	PUNA	2	19 30	154 52	290		VAR			DEPT OF PUBLIC WORKS
KAWAINUI LOWER 193	A 3770	01	HAMAKUA	1	20 05	155 39	1080		WI			HONOKAA SUGAR CO
KEAAU 92	3872	02	PUNA	2	19 38	155 02	285	8A	8A			PUNA SUGAR CO
KEAIIWA CAMP 22.1	3925	03	KAU	3	19 14	155 29	1700				C	KAU SUGAR COMPANY, INC
KEALAKEKUA 26.2	3977	04	S KONA	4	19 30	155 55	1450				C	HERBERT KANE
KEALAKEKUA 2 28.7	3980	04	S KONA	4	19 30	155 55	1450	8A	8A			MRS LILAH MEIER
KEANAKOLU CAMP 124.2	4098	02	HAMAKUA	2	19 55	155 21	5280				C	STATE OIV OF FORESTRY
KIOLAKAA A & F 6	A 4625	03	KAU	3	19 04	155 38	1925		MO			STATE OIV OF FORESTRY
KIPA 89.2	A 4632	02	S HILO	2	19 44	155 09	1490		WI			MAUNA KEA SUGAR CO.
KOHALA MISSION 175.1	4680	01	N KOHALA	1	20 14	155 48	537	7A	7A			K. LYMAN BONO
KOIAWE LOWER 196	A 4685	01	HAMAKUA	1	20 05	155 38	720		WI			HONOKAA SUGAR CO
KONA (KAILUA) 68.3	A 4764	04	N KONA	4	19 39	156 00	30	8A	8A		C	STANFORD OIL CO OF CAL
KONA VILLAGE 93.8	4765	04	N KONA	4	19 50	155 59	20		8A			KONA VILLAGE RESORT HTL
KUKAIAU 222	4815	01	HAMAKUA	1	20 02	155 21	840		6A			LAUPAHOEHOE SUGAR CO
KUKUIHAELE HIC 199	4928	01	HAMAKUA	1	20 07	155 35	980		6A			HONOKAA SUGAR CO
KUKUIHAELE MILL 206	A 4938	01	HAMAKUA	1	20 08	155 34	300		6A			HONOKAA SUGAR CO
KULANI CAMP 79	5011	02	S HILO	2	19 33	155 18	5170	8A	8A			ST DEPT OF SOCIAL SER
KULANI MAUKA 76	A 5018	05	N HILO	5	19 35	155 27	8300		VAR			MAUNA LOA OBS.
KULANI SCHOOL SITE 78	A 5021	02	S HILO	2	19 35	155 20	5735		WI			ST DEPT OF SOCIAL SER
LALAMILO FLD OFF 191.1	5260	01	S KOHALA	1	20 01	155 41	2615				C	STATE DEPT OF L&N RES
LANIAU 68.2	5330	04	N KONA	4	19 40	155 58	1530		7A			KONA EXPERIMENT STATION
LAVA TREE PARK 66.1	5460	02	PUNA	2	19 29	154 54	650				C	STATE OIV OF PARKS
MAKAHALAU 103	5761	02	HAWAII	1	19 59	155 33	3820		6A			PARKER RANCH
MAUKA 2	A 6134	03	KAU	3	19 07	155 50	1760		WI			STATE DIVISION OF PARKS
MAUNA KEA OBS 111.2	6183	02	HAWAII	2	19 49	155 28	3770		7P			MAUNA KEA OBSERVATORY
MAUNA LOA SLOPE OBS	6198	05	HAMAKUA	5	19 32	155 35	1150	MIO	MIO			MAUNA LOA OBSERVATORY
MIDDLE HOLUALOA 68.1	A 6268	04	N KONA	4	19 37	155 58	500		7A			CAPT COOK CATTLE CO
MIDDLE PEN 147.1	A 6270	01	N KOHALA	1	20 06	155 50	1380		VAR			KAHUA RANCH
MOAULA 18	A 6407	03	KAU	3	19 11	155 30	600					PARKER RCH-KAPAPALA OIV
MOUNTAIN VIEW 91	6552	02	PUNA	2	19 33	155 07	1530	6A	6A			PUNA SUGAR CO
NAALEHU 14	A 6588	03	KAU	3	19 04	155 35	800	8A	8A			KAU SUGAR COMPANY
NAPOOPOO 28	A 6697	04	S KONA	4	19 28	155 55	395		7A			KONA EXPERIMENT STA
OOKALA 223	7131	02	N HILO	2	20 01	155 17	430	7A	7A			LAUPAHOEHOE SUGAR CO
OPIHIHALE 2 24.1	7166	04	S KONA	4	19 16	155 53	1270	7A	7A			MRS LORMA TRUMAN
ORCHIO LANO EST 91.5	A 7185	02	PUNA	2	19 34	155 00	445		VAR			BOARD OF WATER SUPPLY

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								TEMP.	PRECIP.	EVAP.	SPECIAL (SEE NOTES)		
ISLAND OF HAWAII													
PAAUHAU 217	7204	01	HAMAKUA	1	20 05	155 26	415		8A		C	HONOKAA SUGAR COMPANY LAUPAHOEHOE SUGAR CO KAU SUGAR COMPANY, INC PUAN SUGAR COMPANY PARKER RCH-KAPAPALA DIV MAUNA KEA SUGAR CO MAUNA KEA SUGAR CO STATE DIV OF FORESTRY STATE DIVISION OF PARKS SUPT PUU HEIAU-NHS	
PAAUILO 221	7312	01	HAMAKUA	1	20 03	155 22	800		7A				
PAHALA 21	A 7421	03	KAU	3	19 12	155 29	870	8A	6A				
PAHOA 65	7457	02	PUNA	2	19 30	154 57	670		6A				
PAKAO 37	A 7643	03	KAU	3	19 22	155 28	5000		MO				
PAPAIKOU 144.1	7711	02	S HILO	2	19 47	155 06	260		7A				
PAPAIKOU MAUKA 140.1	7721	02	S HILO	2	19 47	155 08	1270		7A				
PIIHONUA 89	A 8051	02	S HILO	2	19 44	155 10	1730		MO				
POHAKULOA 107	A 8063	02	HAMAKUA	2	19 45	155 32	6511		W1		C		
PUUKOHOLA HEIAU 98.1	8422	05	HAWAII	5	20 02	155 50	140	8A	8A				
PUU LEHUA 73	A 8460	04	N KONA	4	19 34	155 49	4880		MO			W.H. GREENWELL RANCH PUU WAAWAA RANCH CO BOARD OF WTR SUPPLY MRS CAROLYN CARLSON PARKER RCH-KAPAPALA DIV U S COAST GUARD SHINICHI KANESHIRO BOISE CASCADES WA CONST	
PUU WAAWAA 94.1	A 8555	05	N KONA	5	19 47	155 51	2520		7A		C		
SAOOLE ROAO 1 84	A 8590	02	S HILO	2	19 42	155 12	2340		WM				
SOUTH KONA 2.31	8650	03	HAWAII	3	19 06	155 45	2650	8A	8A				
SOUTH POINT CORRAL 3	A 8675	03	KAU	3	18 57	155 41	500		W1				
UPOLU POINT USCG 159.2	8830	01	N KOHALA	1	20 15	155 53	61	8A	2P				
WAIKAKA SCO 88.2	9025	02	S HILO	2	19 40	155 08	1050		7A				
WAIKALOA-BOIS CAS 95.8	9142	04	HAWAII	5	19 56	155 48	900		8A				
CLOSED STATIONS													
ISLAND OF KAUAI													
STABLE CAMP 1055.1	8694	02	LIHUE	2	22 04	159 27	740				C	CLOSED 7/27/77	
ISLAND OF OAHU													
WAIANAE KAWIWI 801.1	9234	04	OAHU	4	21 28	158 11	40				C	CLOSED 7/13/77	

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								TEMP.	PRECIP.	EVAP.	SPECIAL (SEE NOTES)	
PACIFIC												
EAST OF 180TH MERIDIAN												
CANTON ISLAND	4101	02	PHOENIX IS		2 46N	171 43W	8	9A	9A			ITT/FEDERAL ELEC CORP
FAGA ALU RESERVOIR	4135	03	AMER SAMOA		14 18S	170 42W	820		8A			PUBLIC WORKS
FALEASAO VILLAGE	4248	03	TA'U'MAN		14 14S	169 31W	16		8A			SOLOMULI MALU'IA
JOHNSTON WSO AP	R 4320	01	LINE ISLANDS		16 44N	169 31W	7	M10	M10	7A	J	NATL WEATHER SERVICE
LEONE	4397	03	TUTU'ILA		14 21S	170 47W	20		6P	6P		ST THERESA SCHOOL
FRENCH FRIGATE SHOALS	4401	07			23 52N	166 17W	6		8P	8A		U S COAST GUARD
MIDWAY SAND ISLAND	4490	07			28 13N	177 21W	10	M10	M10			U S NAVY
PAGO PAGO WSO AP	R 4690	03	AMER SAMOA		14 20S	170 43W	12	M10	M10		J	NATL WEATHER SERVICE
WESTERN PACIFIC ISL. NORTH OF 12 N												
ANDERSEN AF8 GUAM	\$4 4025	03	MARIANNA IS		13 35N	144 55E	624	M10	M10			AIR WEATHER SERVICE
CLARK AF8 LUZON	\$4 4100	06	PHILIPPINE I		15 11N	120 33E	475	M10	M10			U S AIR FORCE
GUAM NAS	\$ 4226	03	MARIANNA IS		13 29N	144 48E	254	M10	M10			U S NAVY
GUAM WSMO	R 4229	03	MARIANNA IS		13 33N	144 50E	361	10A	10A	10A	J	NATL WEATHER SERVICE
MANGILAO	4468	03	GUAM		13 27N	144 49E	60		7A			GUAM AGRICULTURAL STA
ROTA	4800	03	MARIANNA IS		14 08N	145 09E	47		8A			OIST ADMINISTRATOR
SAIPAN LORAN	4860	03	MARIANNA IS		15 08N	145 42E	9	10A	10A			U S C G LORAN STATION
WAKE WSO AP	R 4901	01			19 17N	166 39E	12	M10	M10		J	NATL WEATHER SERVICE
CAROLINE AND MARSHALL ISLANDS												
ANGUAR	4030	02	CAROLINE IS		6 55N	134 09E	15		8A			USCG LORAN STATION
ENIWETAK	4165	01	MARSHALL IS.		11 21N	162 21E	10	M10	M10			U S COAST GUARD
FALALOP I., ULITHI	4185	02	CAROLINE IS		10 02N	139 48E	6		9A	9A		PRINCIPAL-ULITHI H-SCH
KAPINGAMARANGI ATOLL	4325	01	PONAPE		1 05N	154 48E	10	M10	M10			ERSIN HAQUET
KOROR WSO	R 4351	02	CAROLINE IS		7 20N	134 29E	94	M10	M10		J	NATL WEATHER SERVICE
KWAJALEIN MISSILE RGN	R 4375	01	MARSHALL IS		8 44N	167 44E	7	12M	12M		J	KMR WEATHER SERVICE
LELE I., KUSAIE	4395	02	CAROLINE IS		5 20N	163 02E	7	M10	M10			JULIAN E ROBERT
MAJURO WSO AP	R 4460	02	MARSHALL IS		7 05N	171 23E	10	M10	M10		J	NATL WEATHER SERVICE
METALANIM	4482	02	PONAPE		6 51N	158 19E	30		6P	6P		REV E. A. SOUCIE
MOKIL ATOLL	4490	02	PONAPE OIST.		6 41N	159 47E	27		5P			ESHAM BEN
NGASANG.8ABELTHUAP	4580	01	PALAU ISLAND		7 38N	134 39E	10		8A			8ETHANIA SEMINARY
PONAPE WSO	R 4751	02	CAROLINE IS		6 58N	158 13E	123	M10	M10		J	NATL WEATHER SERVICE
SATAWAN ATOLL	4814	02	CAROLINE IS		5 20N	153 44E	9	M10	M10			ANTER EKO
TRUK. MOEN I. WSO AP	R 4851	02	CAROLINE IS		7 28N	151 51E	5	M10	M10		J	NATL WEATHER SERVICE
WOLEAI ATOLL	4911	01	CAROLINE IS		7 23N	143 55E	7	M10	M10			HASUGULIMAR/HALEYEMAI
YAP WSO AP	R 4951	02	CAROLINE IS		9 29N	138 05E	44	M10	M10		J	NATL WEATHER SERVICE

SEE REFERENCE NOTES FOLLOWING STATION INDEX



Additional information regarding the climates of Hawaii and the Pacific Ocean Area may be obtained by writing to the National Climatic Center, Federal Building, Asheville, N.C. 28801, or to any National Weather Service Office near you. Additional precipitation data for Hawaii are contained in "HOURLY PRECIPITATION DATA HAWAII."

**DIMENSIONAL UNITS:** Unless otherwise indicated, dimensional units used in this bulletin are: Temperature in °F., precipitation and evaporation in inches, and wind movement in miles. In "Supplemental Data" table directions entered in figures are tens of degrees. Resultant wind is the vector sum of wind directions and speeds divided by the number of observations.

**OBSERVATION TIME:** Data in the "Monthly Extremes," "Daily Precipitation" table, "Daily Temperature" table, and "Evaporation and Wind" table are for the 24 hours ending at time of observation unless indicated otherwise by reference letters in the Station Index. The Station Index shows observation time in local standard time.

**EVAPORATION** is measured in the standard Weather Service-type pan of 4-foot diameter unless otherwise noted below in the Evaporation and Wind table. Max and Min values in the Evaporation and Wind table are extremes of temperature of water in pan as recorded during 24 hours ending at time of observation. Wind is the total wind movement in miles over the evaporation pan as determined by a continuous anemometer recorder located 6-8 inches above the pan.

**NORMALS** for all stations are climatological standard normals based on the period 1941-1970.

**STATION NAMES:** Hawaii state key numbers are included following station names in the several tables.

**LATE REPORTS AND CORRECTIONS** will be carried only in the June and December issues of this bulletin.

**INTERPOLATED VALUES** for monthly precipitation totals may be found in the annual issue of this publication.

**IN THE DATA TABLES THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING:**

- No record in the "Supplemental Data" table, "Daily Precipitation" table, "Evaporation and Wind" table, and the Station Index.
- No record in the "Monthly Summarized Data" table and the "Daily Temperature" table is indicated by no entry.
- And also on an earlier date or dates.
- ++ Highest observed one minute windspeed. This station is not equipped with an instrument to measure fastest mile data.
- \* Amount included in following measurement, time distribution unknown.
- ‡ Extreme occurred at station with incomplete data which may have been exceeded
- A The letter "A" shown following station name in "Monthly Summarized Data" table, "Daily Precipitation" table, and "Station Index," indicates amount carried in the "Total" column is for the period from last measurement of a preceding month through the last measurement of the current month. See "Daily Precipitation" table of this and previous bulletins for dates of measurement. Where gages are read only once monthly, measurements made on the first of a month are credited to the last day of the preceding month.
- B Adjusted to a full month.
- M One or more days of record missing; if average value is entered, less than 10 days record is missing. See "Daily Temperature" table for detailed daily record.
- R Amounts from recording gage.
- T Trace, an amount too small to measure.
- V Includes total for previous month.

**IN THE STATION INDEX THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING:**

- AR Observation made after rain.
- C In Special Column of Station Index indicates Recording Rain Gage Station. Hourly Precipitation values are processed for special purposes, and are published later in the "Hourly Precipitation Data" bulletin. If daily amounts are published in "Monthly Summarized Data" bulletin they are from a separate non-recording gage, except where indicated by reference 'R'. Such amounts may differ from amounts published from the recording gage in the "Hourly Precipitation Data" bulletin.
- J "Supplemental Data" table.
- MO Gage read once monthly; usually on the last day.
- OC Gage readings at periods varying from a few weeks to several months.
- S Storage precipitation station. Precipitation measurements, made at irregular intervals, are published in the annual issue of this publication, beginning with the 1977 data. Prior data are found in the "Storage-Gage Precipitation Data" Bulletin, which was discontinued with the 1976 issue.
- SS Observation time is near sunset.
- VAR Observation time is variable.
- WI Gage read weekly or irregularly only.
- WM Gage read weekly and last day of month.
- # Thermometers are generally exposed in a shelter located a few feet above sod-covered ground; however, this reference indicates that the thermometers are exposed in a shelter located on the roof of a building.
- ‡ Maximum and minimum temperatures are the highest and lowest hourly readings for each day.

\* DRAINAGE CODE: KAUAI: 1-NORTHERN 2-SOUTHEASTERN 3-SOUTHWESTERN OAHU: 1-WINDWARD KOOLAU 2-HONOLULU 3-SOUTH CENTRAL 4-WESTERN 5-NORTH CENTRAL MOLOKAI: 1-(NO INTRA-ISLAND DIVISIONS) LANAI: 1-(NO INTRA-ISLAND DIVISIONS) MAUI: 1-NORTHEASTERN 2-SOUTHERN 3-CENTRAL 4-WESTERN HAWAII: 1-NORTHERN 2-EASTERN 3-SOUTHERN 4-WESTERN 5-CENTRAL

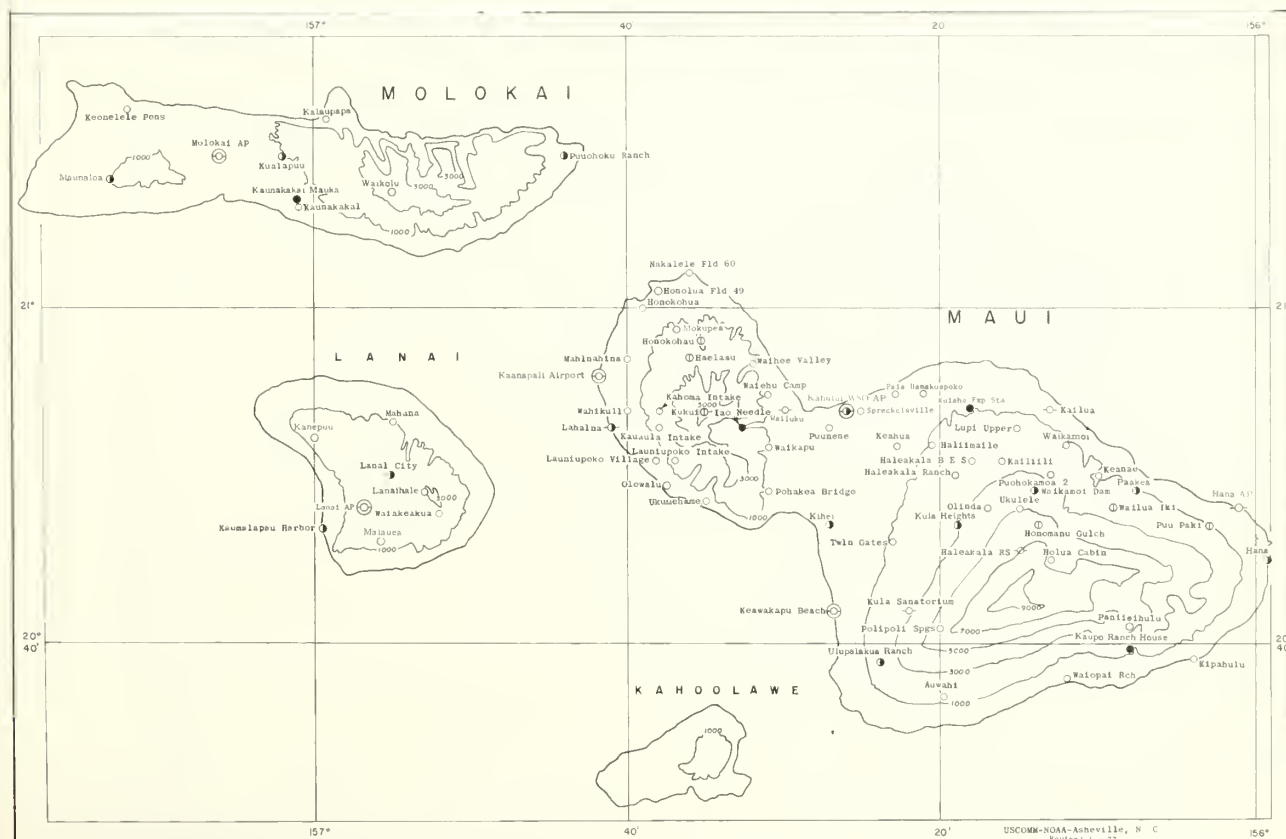
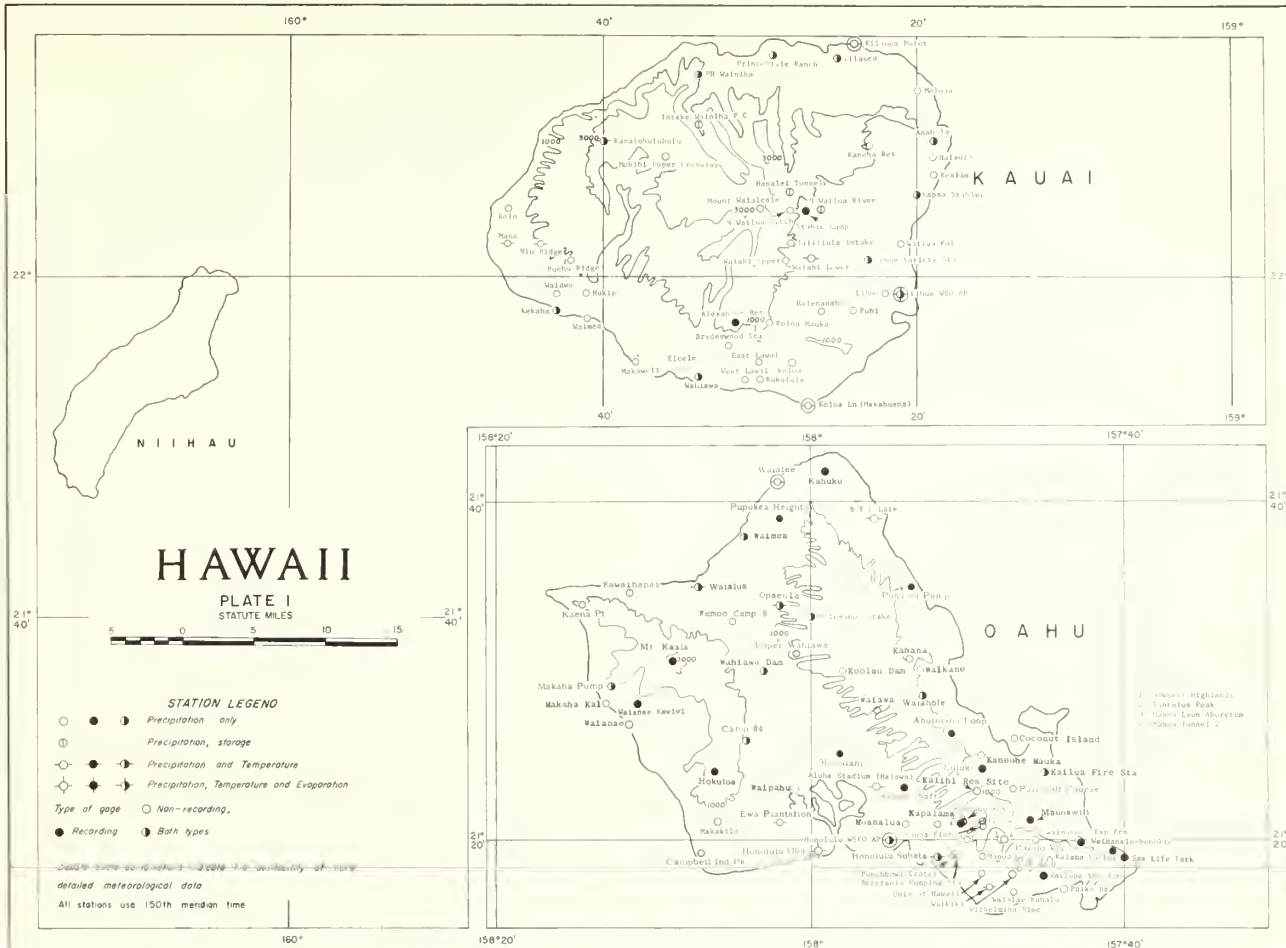
Stations appearing in the tables with no data were either missing or received too late to be included in this issue.

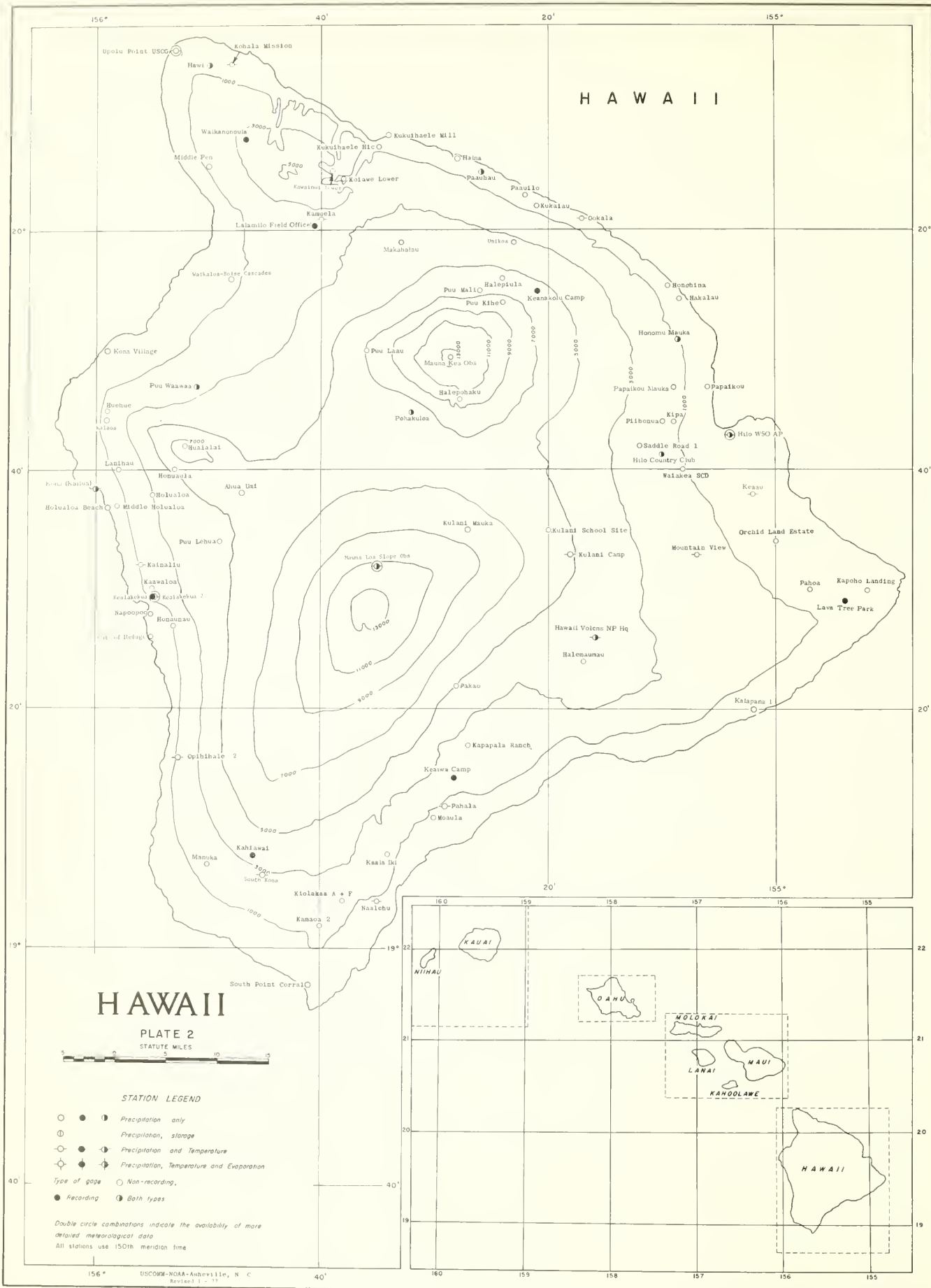
The Pacific includes stations in the Trust Territory of the Pacific Islands, Territory of Guam, American Samoa, and other scattered islands and atolls.

General weather conditions in the U.S. for each month are described in the CLIMATOLOGICAL DATA NATIONAL SUMMARY and STORM DATA.

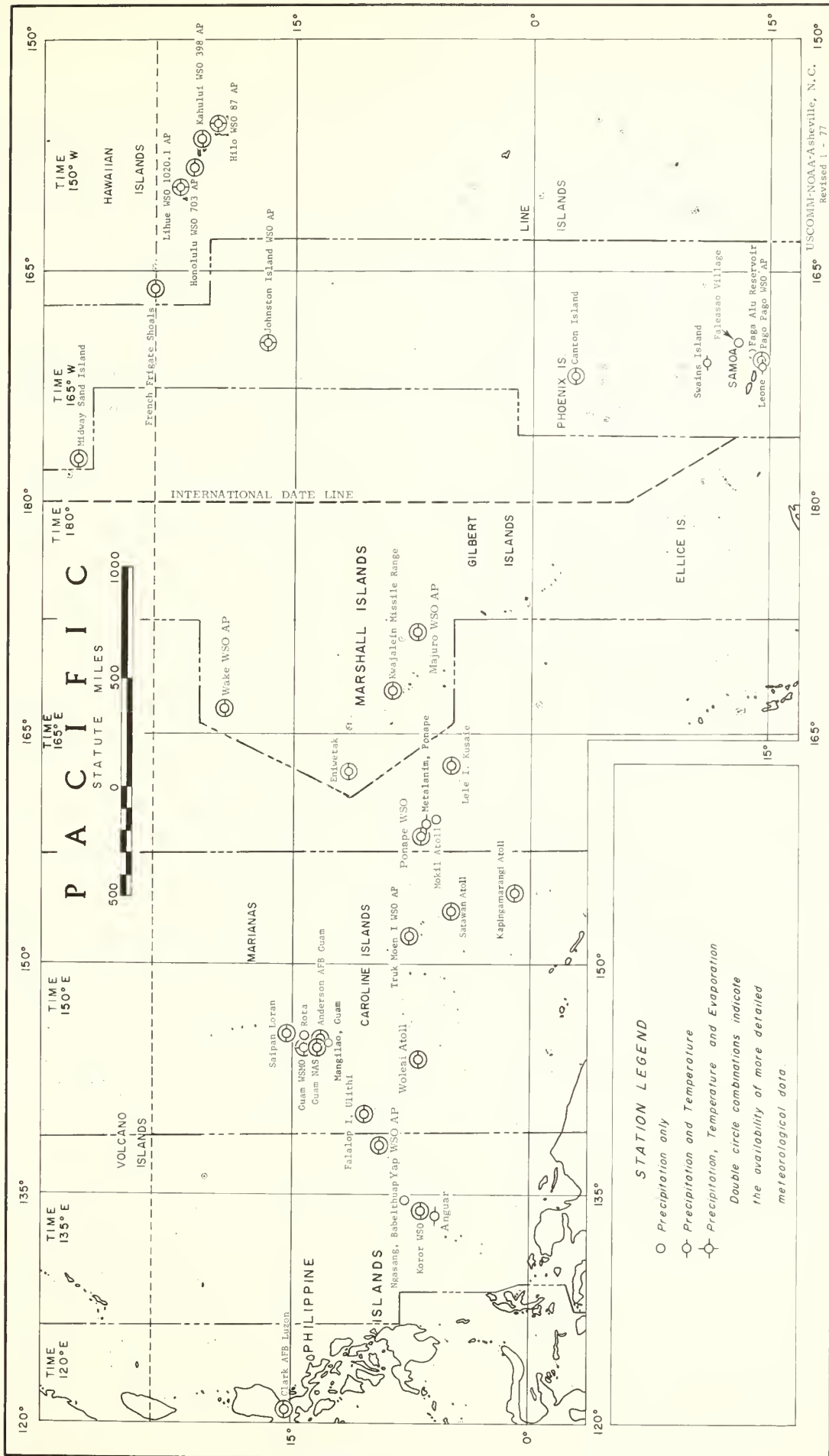
Information concerning the history of changes in locations, elevations, exposure, etc., of substations through 1957 may be found in the publication "Substation History" for this State, price 40 cents. Similar information for regular National Weather Service Offices may be found in the latest annual issue of Local Climatological Data, price 20 cents. These publications may be obtained from the National Climatic Center at the address shown above.

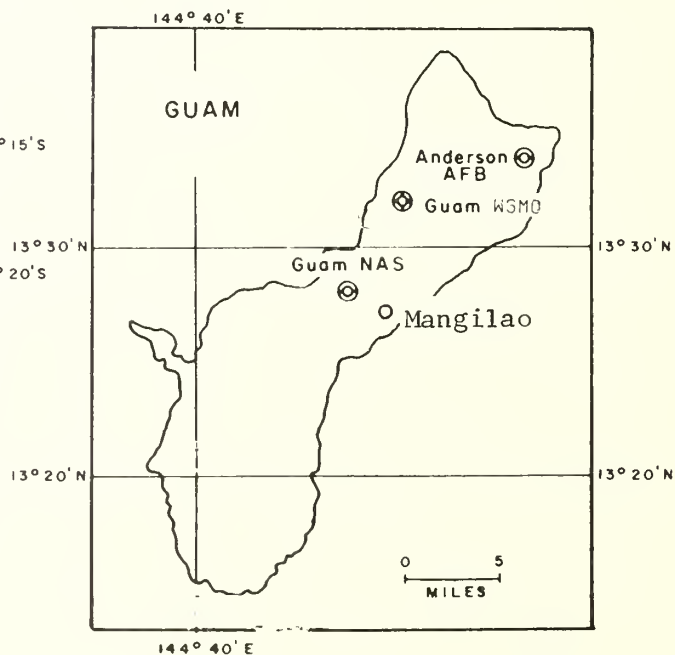
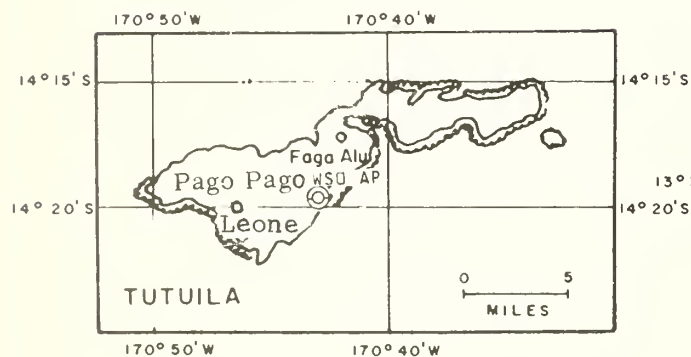
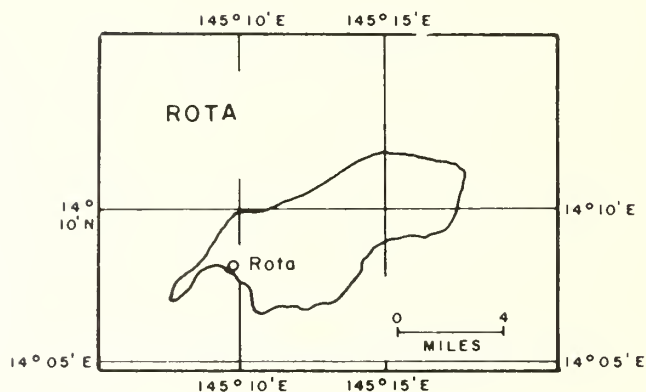
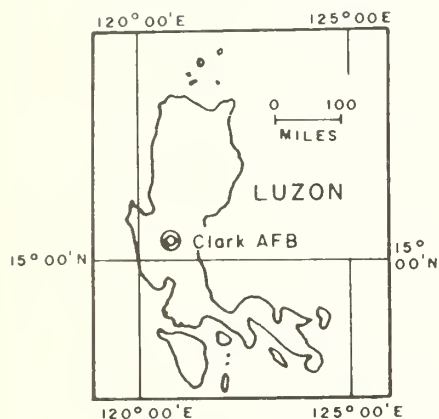
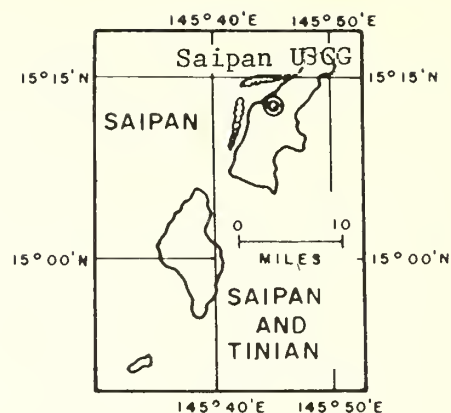
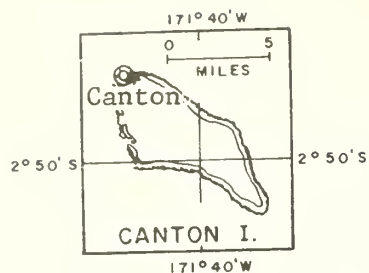
Subscription Price: \$5.10 a year for each section including annual summary; \$5.55 additional for foreign mailing; 40¢ single copy; 30¢ annual summary. Make checks payable to Department of Commerce, NOAA; send payments and orders to: National Climatic Center, Federal Building, Asheville, N. C. 28801. Attn: Publications.





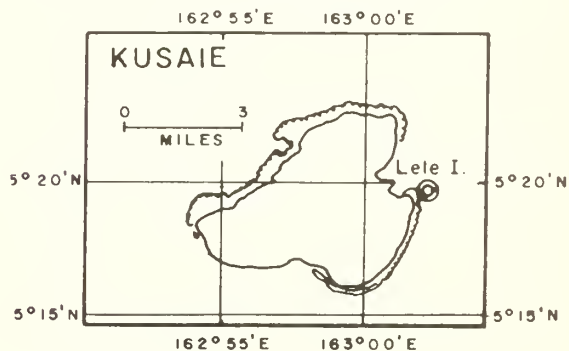
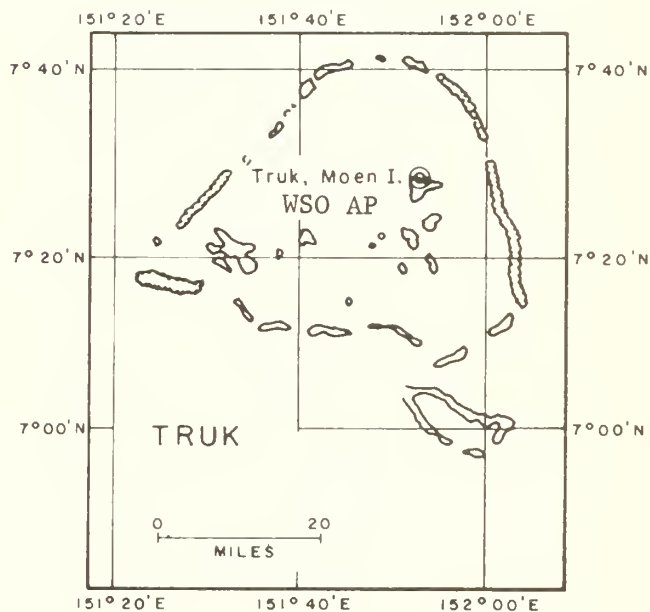
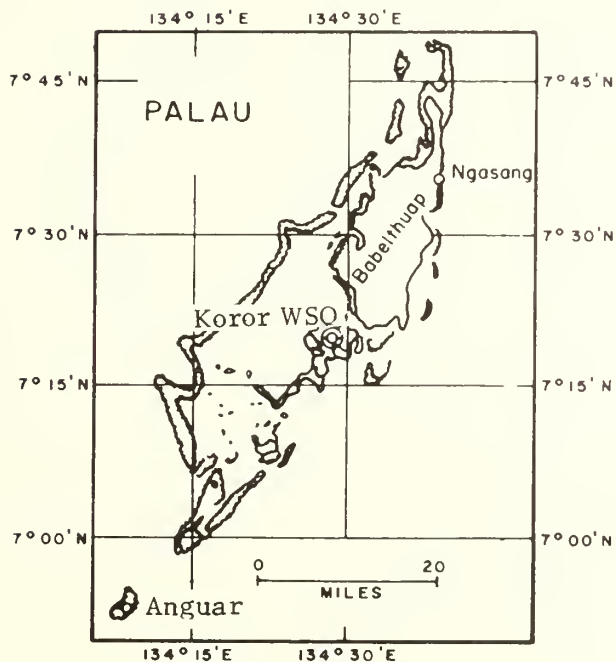
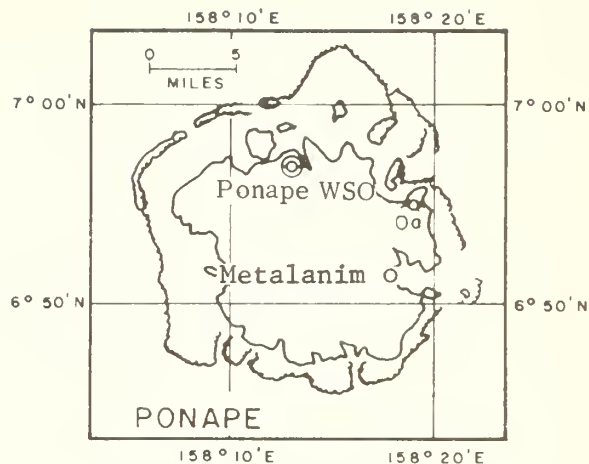
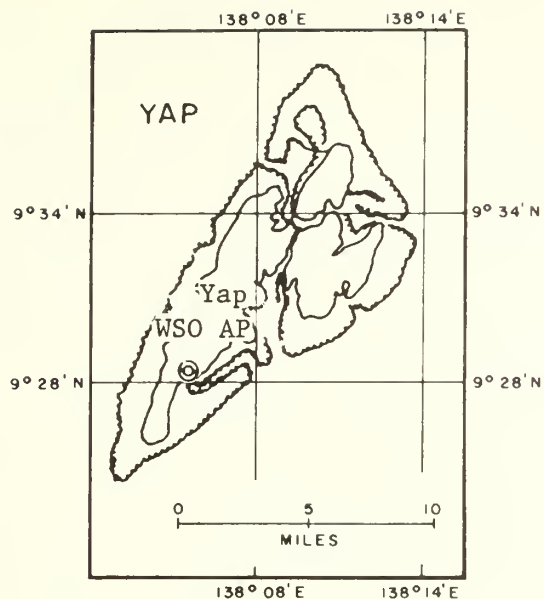
Data for non-recording stations shown on this map may be found in the publication Climatological Data.



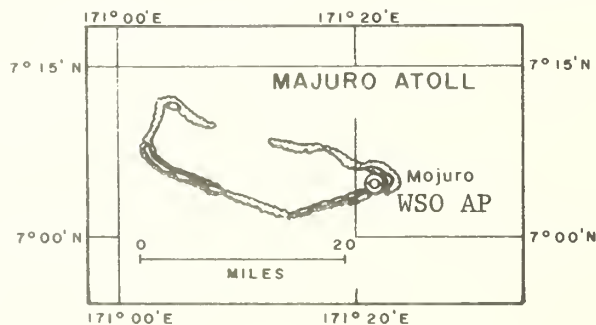
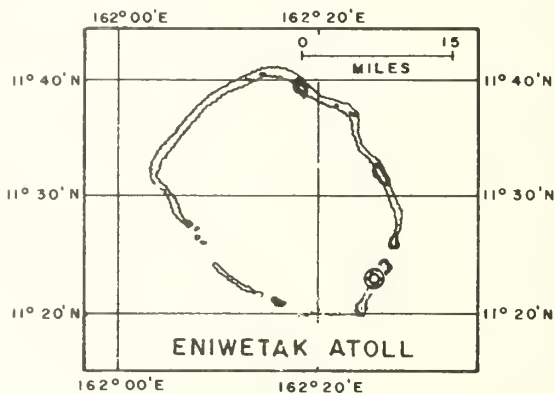
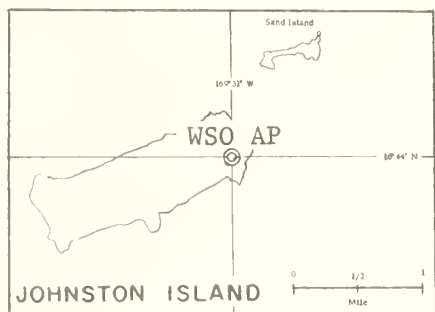
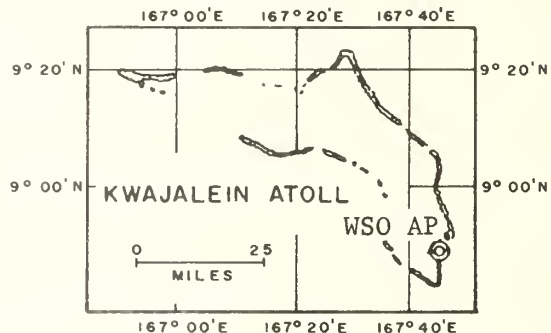
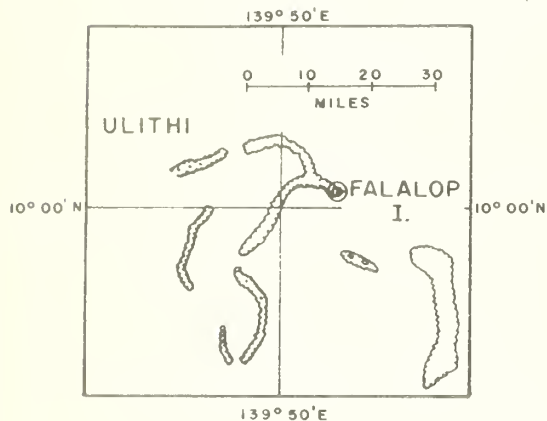
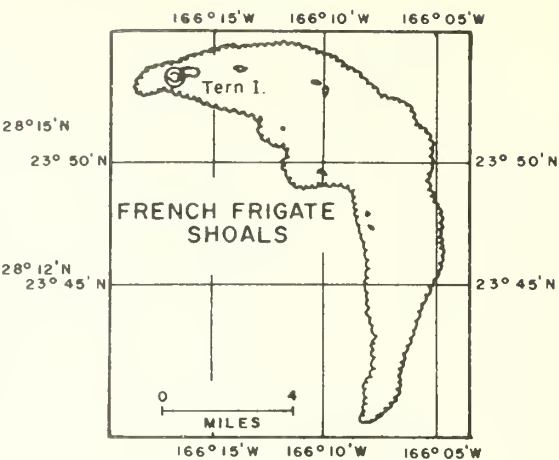
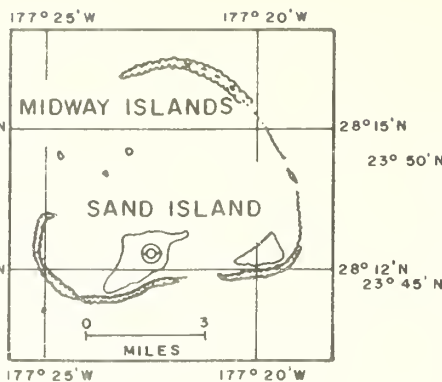
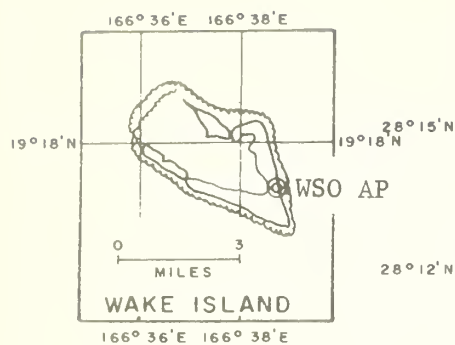


Reef





— Reef





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# Climatological Data

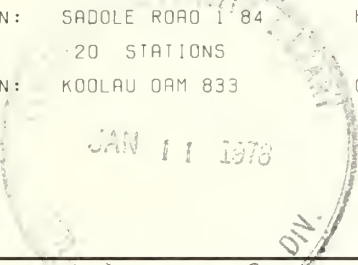


## HAWAII AND PACIFIC

### TEMPERATURE AND PRECIPITATION EXTREMES

HAWAIIAN STATIONS ONLY

HIGHEST TEMPERATURE:	KOLOA LN (MAK) 940.1	KAUAI	96	DATE	29
LOWEST TEMPERATURE:	MAUNA LOA SLOPE OBS	HAWAII	34	DATE	25
GREATEST TOTAL PRECIPITATION:	SADOLE ROAD 184	HAWAII	11.48		
LEAST TOTAL PRECIPITATION:	20 STATIONS		.00		
GREATEST 1 DAY PRECIPITATION:	KOOLAU OAM 833	OAHU	2.10	DATE	25



### SUPPLEMENTAL DATA

	WIND (SPEED - M.P.H.)						RELATIVE HUMIDITY AVERAGES- PERCENT				NUMBER OF DAYS WITH PRECIPITATION								PERCENT OF POSSIBLE SUNSHINE AVERAGE (TENTHS) SKY COVER SUNRISE TO SUNSET
	RESULTANT DIRECTION	RESULTANT SPEED	AVERAGE	FASTEST MILE	DIRECTION OF FASTEST MILE	DATE OF FASTEST MILE	STANDARD OF TIME				TRACE	.01-.09	.10-.49	.50-.99	1.00-1.99	2.00 AND OVER	TOTAL		
							GREENWICH CIVIL												
							12	18	00	06									
GUAM WSMO	-	-	-	30	SW	13	-	83	82	93	2	6	9	5	4	2	28	32	8.8
HILO WSO 87 AP	21	0.9	5.9	17	SE	09	87	77	69	82	5	12	7	1	1	0	26	41	7.1
HONOLULU WSO 703 AP	7	10.9	12.4	28	NE	02	72	67	52	68	10	2	0	0	0	0	12	73	6.1
JOHNSTON WSO AP	10	12.7	14.5	34	E	05	84	83	78	82	8	8	4	1	0	1	22	76	6.1
KAHULUI WSO 398 AP	5	10.0	11.3	33	E	02	69	70	55	62	6	3	0	0	0	0	9	75	4.7
KOROR WSO	23	5.1	9.2	24	SW	05	84	-	80	77	1	5	4	0	3	3	16	50	8.9
KWAJALEIN MISSILE RGN	8	1.3	7.2	23+	21	17	80	82	72	74	8	10	4	1	3	1	27	-	7.0
LIHUE WSO 1020.1 AP	7	10.9	12.5	24	NE	01	76	71	61	72	2	10	5	0	0	0	17	68	6.5
MAJURO WSO AP	14	0.6	6.1	30	N	18	79	81	72	76	4	9	5	3	2	1	24	72	7.6
PAGO PAGO WSO AP	12	9.0	11.6	38	E	30	85	85	73	79	3	6	7	2	0	0	18	75	7.5
PONAPE WSO	-	-	-	13	SW	30+	94	-	74	77	2	8	8	5	1	1	25	42	8.8
TRUK, MOEN I. WSO AP	24	2.7	7.6	29	W	09	87	-	76	75	3	4	8	1	4	2	22	27	9.1
WAKE ISLAND WSO AP	6	11.2	13.4	31	E	29+	83	86	72	75	3	8	8	1	1	0	21	77	5.6
YAP WSO AP	24	5.2	9.1	46	SW	03	88	-	80	78	2	7	6	6	1	3	25	33	8.8

I CERTIFY THAT THIS IS AN OFFICIAL PUBLICATION OF THE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION AND IS COMPILED FROM RECORDS ON FILE AT THE NATIONAL CLIMATIC CENTER, ASHEVILLE, NORTH CAROLINA 28801.

*Daniel B. Mitchell*

DIRECTOR  
NATIONAL CLIMATIC CENTER

noaa

NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION / ENVIRONMENTAL DATA SERVICE / NATIONAL CLIMATIC CENTER ASHEVILLE, N.C.



## MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

HAWAII AND PACIFIC  
SEPTEMBER 1977

STATION	TEMPERATURE										PRECIPITATION												
	AVERAGE MAXIMUM	AVERAGE MINIMUM	AVERAGE	DEPARTURE FROM NORMAL	HIGHEST	DATE	LOWEST	DATE	DEGREE DAYS	NO. OF DAYS				TOTAL	DEPARTURE FROM NORMAL	GREATEST DAY	DATE	SNOW. SLEET		NO. OF DAYS			
										MAX.		MIN.						TOTAL	MAX. DEPTH ON GROUND	DATE	-10 OR MORE	-50 OR MORE	1.00 OR MORE
										32" OR ABOVE	32" OR BELOW	32" OR ABOVE	32" OR BELOW										
HAWAII																							
ISLAND OF KAUAI																							
ANAHOLA 1114	A													1.07									
KANALOHULU 1075		72.9	53.5	63.2		78 15	46 28*			0	0	0	0	.97		.39	2		.0		1	0	0
KAPAA STABLES 1104	A													2.36		.62	28		.0		0	0	0
KILAUEA POINT 1133		85.3	73.8	79.6		90 28	71 27*			1	0	0	0	.86		.13	18		.0		3	0	0
KOLOA 936	A													1.61					.0		0	0	0
LIHUE WSO 1020.1 AP	//R	85.3	74.6	80.0	1.2	87 5	66 27			0	0	0	0	1.26	- .59	.32	26		.0		5	0	0
MANA 1026		89.4	67.3	78.4	.5	91 12*	62 28			17	0	0	0	.24	- .78	.13	29		.0		1	0	0
N WAILUA DITCH 1051	A													8.10					.0				
PH WAINIHA 1115														1.87	- 3.30				.0				
PUEHU RIDGE 1040														.28	- 1.53	.28	28		.0		1	0	0
WAIHAWA 930	A													.72	- 1.04				.0				
WAIHAI LOWER 1054		78.3	66.7	72.5		79 30*	60 28			0	0	0	0	6.17	- 1.22	1.22	28		.0		15	2	1
WAIMER 947														.24	- .42	.18	29		.0		1	0	0
ISLAND			74.7											1.98					.0				
ISLAND OF OAHU																							
ALOHA STADIUM-HALAWA		87.4M	71.3M	79.4M		91 29	68 28*			2	0	0	0	.16					.0				
B Y LAIE 903.1														.37		.30	29		.0		1	0	0
HONOLULU OBSERV 702.2		88.4	74.8	81.6	1.2	90 15*	69 28			4	0	0	0	.05	- .62	.03	29		.0		0	0	0
KANEHE MAUKA 781	R	82.6	72.9	77.8	1.0	86 16	70 28*			0	0	0	0	2.15	- 1.36	.45	27		.0		6	0	0
KOOLAU DAM 833	A													7.95		2.10	25		.0		13	4	3
MANOA LYON ARBORETUM		81.2	69.0	75.1		86 28	65 30*			0	0	0	0	6.05		.75	3		.0		14	6	0
NUUANU RES 4 783														3.28		.78	17*		.0		7	3	0
OPAEULA 870	A	82.6	67.0	74.8	1.5	89 28	62 28*			0	0	0	0	.78					.0				
PALOLO VALLEY 718	R													6.80	- .67	1.36	9		.0		13	6	1
WAIHAWA DAM 863	A													.71		.20	2		.0				
WAIHOLE 837	A													5.12					.0				
WAIKALEE 896.3		83.8M	72.1M	78.0M		86 29*	68 3			0	0	0	0	1.50		.30	30		.0		6	0	0
WAIKALUA 847	A	86.7	67.2	77.0	.7	90 16*	61 27			5	0	0	0	.12	- .55	.04	25		.0		0	0	0
WAIKIKI 717.2		88.9	69.9	79.4		91 15	65 27			10	0	0	0	.27		.09	23		.0		0	0	0
WAIMANALO EXP FARM		84.7	72.7	78.7		88 29	67 29*			0	0	0	0	.57		.22	3		.0		2	0	0
WAIKALUA 750	A													.42		.29	29		.0		1	0	0
ISLAND			78.0											2.27					.0				
ISLAND OF MOLOKAI																							
KUALAPUU 534	A													.30					.0				
MAUNALO 511	A													.47					.0				
MOLOKAI AP 524		85.5	70.8	78.2		90 22	66 29*			1	0	0	0	.30			17 28		.0		1	0	0
ISLAND			78.2											.36					.0				
ISLAND OF LANAI																							
LANAI CITY 672	A													.28	- 1.94	.12	30		.0		2	0	0
ISLAND														.28					.0				
ISLAND OF MAUI																							
HALEAKALA B E S 434	A	66.2	45.9	56.1	.7	73 22*	40 25*			0	0	0	0	.59		.13	18		.0		1	0	0
HALEAKALA RS 338		84.0	70.0	77.0		85 30*	63 5			0	0	0	0	.60	- 1.22	.17	18		.0		4	0	0
HANA AIRPORT 355														3.33		.94	18		.0		11	2	0
HONOKOHUA 493	A													1.04					.0				
KANAPALI AP 453.1		85.5	70.6	78.1		87 28*	66 6			0	0	0	0	.04		.02	24*		.0		0	0	0
KAHULUI WSO 398 AP	R	88.4	71.0	79.7	1.3	93 21*	64 6			8	0	0	0	.05	- .22	.02	17*		.0		0	0	0
KAILUA 446		80.6M	68.0M	74.3M	1.0	82 30*	64 28			0	0	0	0	4.30	- 2.68				.0				
KEANAE 346	A													6.70					.0				
KIPAHULU 258														1.70	- 4.33	.56	14		.0		6	1	0
KULA SANATORIUM 267		76.8	59.7	68.3	2.2	80 22	58 26*			0	0	0	0	.14	- 1.79	.08	30		.0		0	0	0
LAHAINA 361		76.3	69.4	78.9	1.2	90 25*	67 5			9	0	0	0	.00	- .25	.00			.0		0	0	0
PAIA 406														.23	- .62				.0		0	0	0
WAILUKU 386	A	84.3M	72.1M	78.2M	.4	87 9	68 28			0	0	0	0	.14	- .35				.0		0	0	0
ISLAND			73.8											1.45					.0				
ISLAND OF HAWAII																							
HAWAII VOLCNS NP HQ 54	R	71.8M		M		77 10				0	0			2.46	- 2.12	.43	18		.0		10	0	0
HILO WSO AP 87	A	85.7	69.3	77.5	1.9	90 12	67 27*			1	0	0	0	4.19	- 3.25	1.14	17		.0		9	2	1
HUEHUE 92.1														.16		.09	25		.0		0	0	0
KAILUA 73.2		80.6	63.3	72.0		84 30*	60 3			0	0	0	0	1.23	- 6.02				.0		0	0	0
KAPOHO BEACH 93.11		87.7M	70.3M	79.0M		91 30*	68 29*			6	0	0	0	2.52		.64	17		.0		9	1	0
KEAAU 92		82.7	67.3	75.0		86 13	65 3			0	0	0	0	4.85			17		.0		12	4	1

SEE REFERENCE NOTES FOLLOWING STATION INDEX

# MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

HAWAII AND PACIFIC  
SEPTEMBER 1977

STATION		TEMPERATURE											PRECIPITATION																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
		AVERAGE MAXIMUM	AVERAGE MINIMUM	AVERAGE	DEPARTURE FROM NORMAL	HIGHEST	DATE	LOWEST	DATE	DEGREE DAYS	NO. OF DAYS				TOTAL	DEPARTURE FROM NORMAL	GREATEST DAY	DATE	SNOW, SLEET			NO. OF DAYS																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
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SEE REFERENCE NOTES FOLLOWING STATION INDEX

## MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

HAWAII AND PACIFIC  
SEPTEMBER 1977

STATION		TEMPERATURE										PRECIPITATION																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
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SEE REFERENCE NOTES FOLLOWING STATION INDEX

## DAILY PRECIPITATION

HAWAII AND PACIFIC

SEPTEMBER 1977

STATION	TOTAL	DAY OF MONTH																															
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
HAWAII																																	
x x x ISLAND OF KAUAI																																	
ANAHOLA 1114	A	1.07	.05	.05	x	x	x	.15	.05	.12	x	x	.10					x	x		.04			.02	x	x	.25	.05	.10	.09			
BYDOESW00 STA 985	A	1.37	.04	.20	x			.43	.01	.01	x	x	.12					.01	x	x	.06			.13	x	x	.15	.01	.20	x			
EAST LAHAI 934	A	2.11	.05	.15	x	x	x	.49	.06	.02	x	x	.08					.07	x	x	.10			.11	.09	x	x	.26	.06	.57			
ELEELE 927	A	.31	.06	x		x	x	.17	T				T										.01	.05	x	x	.02						
HALEKULA 1110	A	1.57	.12	.09	x	x	x	.20	.12	.15	x	x	.10					x	x		.10				x	x	.46		.15	.09			
HALEMANAHO 1006	A	2.76	.15	.13	x	x	x	.40	.04	.15	x	x	.30					.05	x	x	.14			.19	x	x	.35	.21	.28	.37			
HUKIP09 946	A	.30						.20																									
ILILILUA INTAKE 1050	A	7.69	.49	.38	x	x	x	1.21	.08	.22	x	x	1.11	.05	.23	.25	.19	x	x		.43	.09	.20	.30	.30	x	x	.49	.03	1.49	.14	.01	
INTAKE WAINIHA PC 1086	A	5.84	x	2.65	x	x	x	x	1.64	x	x	x	x	x	x	x	x	x	x	x		.59	x	x	.29	x	x	.67	x	x	x		
KANALOHULULU 1075	A	.97		.39	.05			.04	.02							.04		.05	.09					.03	.08	.05		.06		.07			
KANEHA RESERVOIR 1092	A	2.93	.15	.10	x	x	x	.45	.20	.40	x	x	.40			.10		x	x		.17			.05	.05	x	x	.50	.03	.20	.13		
KAPAA STABLES 1104	A	2.36	.20	.03	x	x	x	.35	.29	.29	x	x	.20				.03	x	x		.07			.07	x	x	.37		.62	.20			
KEALA 1112	A	1.20	.05	.05	x			.27	.05	.10	x	x	.09	.02				x	x		.05			.05	x	x		.10		.25	.12		
KEKAHA 944	A	.48						.09																									
KILAUEA 1134	A	2.17	.05	.05	.28	.04	.03	.15		.03	.18	.33	.17	.04	.05	.14		.18				.01	.02	.02	.08	.17	.06	.05	.03	.01		.39	
KILAUEA POINT 1133	A	.86	.02	.01	.01	.02	.02	.09		.06	.10	.05		.05			.01	.03	.13		.03			.06	.05	.01	.10		.01				
KOL0 1033	A	.22						.02																									
KOL0A 936	A	1.61	.10	.09	x	x	x	.33	.13	.01	x	x	.21	.01			.05	x	x		.14			.12	x	x	.22	.03	.01	.17			
KOL0A LN (PARK) 940.1	A	.63	.03	.05	.09			.07	.01	x	x	.02	.01	.01			x	x	x					.02	x	x	.01	.02	.01	.36			
KOL0A MAUKA 994	A	3.44	x	x	x	x	x	.94	x	x	x	x	x	.66	T	x	x	x	x		.18	T	x	x	x	x	.61	1.05	x	x			
KUKUIULA 935	A	.83	.02	.06	x	x	x	.20	.01	.01	x	x	.02				.01	x	x		.06			.02	x	x	.16	T		.26			
LIHUE VARIETY ST 1062.1	A	2.66	.21	.18	x	x	x	.36	.04	.05	.25	x	.17	.03				x	x		.11			x	x	.38		.65	.23				
LIHUE 1020	A	1.85	.07	.17	x	x	x	.16		.10	x	x	.08					x	x		.04			.01	x	x	.65	.01	.50	.06			
LIHUE W00 1020.1 AP	A	1.26	.13	.12	T	.06	.01	T	.03	.05							.01	x	x				.01	.07	.06	.01	.32	.22	.03	.13			
MAKAOLE 1 965	A	.17				.01																										.16	
MANA 1026	A	.24																															
MOHAKI UPR CROSS 1083	A	.96	.14	.43		.07	.30	.14															.03	.03	.03	.03		.03	.08	.13			
MOL0AA 1145	A	.88	.30								x	x	.25				.03									x	.03			.03			
MOUNT WAIKALEALE 1047	A	.43																														.43	
NIU RIDGE 1035	A	.43																															
N WAILUA DITCH 1051	A	8.10	.27	.27	x	x	x	1.09	.33	.17	x	x	1.98	.08	.20	.15	.18	x	x		.34	.03	.10	.26	.36	x	x	.52	.86	.78	.12	.01	
PA WAINIHA 1115	A	1.87	.04	.10	x	x	x	.55	.10	.01	x	x	.07					x	x		.25			x	x	x	.75						
PRINCEVILLE RANCH 1117	A	1.83	.09	.06	x	x	x	.46	.04	.01	.12	x	.21	.01			.04	x	x		.15		.06	.03	.04	x	x	.49		.28			
PUEHU RIDGE 1040	A	.28																															
PUIHI 1013	A	.46	.05	.07				.17	.01	.03	.01	x	x	.03																		.06	
WAILIHA 930	A	.72	.01	.12	x	x	x	.30	T		.42	.16	.03	.06	.18	.08	.09	.44	.07	.18	.03	.08	.09	.21	.23	.21	.05	.04	1.22	.06	.02		
WAILIHA LOWER 1054	A	6.17	.46	.29	.83	.02	.13	.09	.18	.03	.19	.14	.17	.58	.20	.07	.05	.40	.12	.15	.32	.22	.18	.05	.18	.10	.30	.03	.29	.20	.30	1.00	.13
WAILIHA UPPER 1052	A	7.31	.34	.45	.87	.17	.20	.10	.14	.17	.58	.20	.07	.05	.40	.12	.15	.32	.22	.18	.05	.18	.10	.30	.03	.29	.20	.30	1.00	.13			
WAILIHA 943	A	.56																														.48	
WAILIHA KAI 1065	A	2.20	.09	.18	x	x	x	.35	.06	.20	x	x	.12	.03				x	x		.08			.03	x	x	.08	.02	.70	.26			
WAIKANA 947	A	.24							.06																								
WEST LAHAI 931	A	.92	.02	.07	x	x	x	.17	.03		x	x	.03				.03	x	x		.03			.05	x	x	.21		.18	.27	.01		
x x x ISLAND OF MAUI																																	
ALOHA STADIUM-HAALAA	A	.16	x	x	x	x	x	.04																		x	.10						
BERTANIA PUMP-ING STA	A	.41	.02	.01	x	x	x	.12		.02	.06													.07	.11								
B Y U LAJE 903.1	A	.40	.04	x	x	x	x	.03	x	x	.15	x	x	.02	x	x	.13									x	x	x	.03				
CAMPBELL IND PK 702.5	A	.40	.04	x	x	x	x	.03	x	x	.15	x	x	.02	x	x	.13									x	x	x	.03				
CAMP 84 807	A	.40	.04	x	x	x	x	.03	x	x	.15	x	x	.02	x	x	.13									x	x	x	.03				
COCONUT ISLAND 840.1	A	4.11	.22	x	x	x	x	.23	.02	.19	.02	x	x	.13	.01	.02		x	x		.14			.01	x	x	.20	.27	.47	.01			
EWA PLANTATION 741	A	.11							.01																							.06	
HELEMANO INTAKE 881	A	1.45	.39	x	x	x	x	.46	.07																	x	x	.60	x	.30	x		
HONOLULU OBSERV 702.2	A	.37	T	T	T	T	T		.02	.06																						.03	
HONOLULU W00 703 AP	A	.05	T	T	T	T	T		.02	.06																						.03	
KARENA POINT 841.3	A	.74	x	x	x	x	x	.56	x	x	.04							x	x	x		.73	x	x	x	x	x	x	x	x	.14		
KAHANA 883	A	9.78	x	x	x	x	x	.47	x	x	x	x	2.73	x	x	x	x	x	x				.73	x	x	x	x	1.54	x	x			
KAILUA FIRE STA 781.3	A	1.36	.10	.04	.23	.03	.04		.05	.03	.17	.01	.01				.01	.03	.03	.02	.08			.03	.02	.08		.06	.02	.40			
KALII RES SITE 777	A	4.50	.16	.28	.10			.52	.40	.92	.06			.04			.04	.66	.04				.22	.02	.28	.04	.18	.02	.04	.18	.02		
KANEHE MAUKA 781	A	2.15	.08	.05	.26	.09	.07	.05	.13	.13	.29	.03	.06	.01				.09	.14	.03			.01	.03	.05	.03	.45	.06	.01				
x x x ISLAND OF OAHU																																	
KAPALAPA 773	A	1.01	x	x	x	x	.30		.10	.05																							

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# DAILY PRECIPITATION

HAWAII AND PACIFIC  
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STATION	TOTAL	DAY OF MONTH																															
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
HAWAII																																	
KULANI CAMP 79	A	2.87	.05	.07	.34	.02	.14	.02	x	x	x	.05	x	.03	.10	x	.09	x	.30	.62		.05			.19	.35	.13	.03	.06	.13	.07	.06	
KULANI MAUKA 76	A	.91	x	x	x	x	x	.06	x	x	x				x	x	x	x	.60	x		.59	x	x	x	x	.19	x	x	x			
KULANI SCHOOL SITE 78	A	1.85	x	x	x	x	x	x	x	x	x	1.25	x	x	x	x	x	x	x	.60	x	x	x	x	x	x	x	x	x	x	x		
LAKIHAU 68.2	A	2.08		.03	.10	.09	.05						.28		.05				.46	.07	.72					.10		.13					
MAKAHALAU 103	A	.15																.15															
MAUKA 2	A	1.40					T											x	x		1.40	T											
MAUNA KEA OBS 111.2	A	.02								x	x	.07						x	.55	x	.01	.16											
MAUNA LOA SLOPE OBS	A	.79	x	x	x	x	x	.20	x	x	x	x	x	.08	x	x	x	x	x	x		.04											
MIDDLE MAUNALOHA 68.1	A	.32												.45																		.06	
MIDDLE PEN 147.1	A	.51																															
MOAULA 18	A	1.05										x	x	x	x	x	x	x	x	x	.60	x	x	x	x	x	x	x	x	x	x	.46	
MOUNTAIN VIEW 91	A	9.00	.07	.09	.07	.17	.29	.02	.70	.07	.01	.07	.06	.15	.44	.12	.46	1.26	1.09	.18	.15	.15	.52	.27	.74	.07	.01	.03	1.73	.01			
NARLEHU 14	A	1.63	x	x	x	x	1.03	x	x	x	x	x	.52	x	.08	.11	x	x	x	.18	x	x	x	x	x	x	.11	T					
NARPOPOO 28	A	1.42											.20	x	x	x	x	x	x														
OKALA 223	A	2.96	.01	T	.04	.02	.29	T	.26	.02			.40	T	.01		.12	.68	.65		.05			.19	.10	.12							
OPINIAHLE 2 24.1	A	1.01	.16	T	.09	.07	.01	.03	T	.03	.14	.14	.01	T		T	T	.12	.04	T			T	.17	T								
ORCHIO LAND EST 91.5	A	6.34	x	1.32	x	x	x	x	.18	x	.92	x	x	x	x	x	1.13	x	x	x	x	x	x	2.15	x	x	x	x	x	x	.82		
PARAUHUA 217	A	.74							.18			.03					.03	.16	.21				.08	.01									
PARUULO 221	A	1.03	T	.04		.10	T	.05	T				.17	T			.01	.30	.25			T	.08	.03									
PAHALA 21	A	1.82										x	x	.09					.65		T							.01	1.03	.04			
PAHOA 65	A	5.49	.12	.11	.05	.18	.30	.03	.31	.08	.10	.15	.01	.23	.18	.25	.76	.95	.15	.08	.10	.21	.33	.42	.28	.03	.04						
PAKAO 37	A																																
PAPAIKUBU 144.1	A	5.73	.01	x	x	.32		.44	.01		x	x	.15	.02	.22	.03	.45	x	x	2.62	.12	.38	.10	x	x	1.06							
PAPAIKUBU MAUKA 140.1	A	10.46	.15	.09	x	x	.70	.05	.61		x	x	.56	.14	.22	.03	.41	x	x	4.85	.27	.16	.31	x	x	1.46	.13	x	.31	.01			
PIIHONUA 89	A	9.60	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	9.60			
POHAKULOA 107	A	.98				x	x	x	.03		x	x	x	x	x	x	x	x	x		.29	.69											
POUKOHOLA HEIAU 88.1	A	.30	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	.30		
PUU LEHUA 73	A	.00																															
PUU WAHAWA 64.1	A	.00																															
SADDLE ROAD 1 84	A	11.48	2.38	x	x	x	x	x	1.55	x	x	x	x	x	1.43	x	x	x	x	x	x	4.82	x	x	x	x	x	x	1.30	x			
SOUTH KONA 2.31	A	.09						.05										.01	.03														
SOUTH POINT CORRAL 3	A	.12	T	T		.10			T		x	x	x	x	x	x	x	x	x	x	x	.12	T	.06	T	T	.01						
UPOLI POINT USCO 159.2	A	.17																															
WAIKAKA SCO 88.2	A	9.63	.16	.07	.19	.20	.20	.88	T		.24	.18	.04	.10	.55	.06	.25	1.36	2.06	T	.10		.15	.43	.40	.41	.04	.43	.26	.87			
WAIKALOA-BBIS CAS 95.8	A	.00																															

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# DAILY PRECIPITATION

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STATION	TOTAL	DAY OF MONTH																														
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
PACIFIC																																
1 x x																																
EAST OF 180TH																																
MERIDIAN																																
CANTON ISLAND	3.32	.08	.03			.02		.08	.15		.41	x	.01		1.25	1.26															.03	
FAGA ALU RESERVOIR	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.25	1.26																
FALEASAO VILLAGE	9.53	.03		.11	.06	.17			.84		.13	.32	.97	.14	1.46	.84	.56	.14		.70	.10	.04	.58					.04	.98	.62		.70
JOHNSTON IS WSO AP	5.64	x	T	T	T	3.51	.03	.77	T	.36		.07	T	.02	.02			T	.07		.01	.01	.08	T	.30	.02				.25	.14	
LEONE	4.00	x	x	x	x	x	.12	.03						.02							.03	2.05	.06	.01	.08	.09				.75	.03	.02
FRENCH FRIGATE SHOALS	2.29	.20	.01	.01		.01			.03	.01			.02	.01			.28	.16		.01	.02						.38	.21	.11	.02		.80
MIDWAY SAND ISLAND	6.94	.25	2.76	.10	.03	.14	.06	.19	T			.05	.03	T	.03		.09	.01		.06	1.21	.81	.04	.72	.24	.38	.05	T	.03	.04		
PAGO PAGO WSO AP	3.12	.04	.83	.18	.01	.05	.18	.14	.02				T								.17	.46	T	.01	.15	.07				.13	T	.68
x x x																																
WESTERN PACIFIC ISL.																																
NORTH OF 12 N																																
ANDERSEN AFB GUAM	15.77		1.99	.08	.31	.22		T	.04	.07	.32	.01	.11	2.16	1.25	1.76	2.73	.15	.97	.39	.17	.04	.94	.43	T	.20	.21	T	.95	.07	.20	
CLARK AFB LUZON	15.44	.03	.07	2.14	1.06	.70	.36	.81	1.04	.02	2.58	.51	1.15	.15	.25	.25	.82	.75	.18	.16	.25	.02	T	.12	.29	.11	1.32	T				.26
GUAM NAS	13.70		.65	.23	.42	.32	.18	.16	.05		T	.25		1.81	1.29	1.75	3.44	.56	.69	.14	.25		.16	.05		1.17	T		.13	T	T	
GUAM USPO	17.32	.04	.66	.05	.88	.54	T	.96	.30	.05	.25	.01	.22	1.64	1.25	2.61	3.22	.24	1.37	.07	.38	T	.13	.12	.02	.44			1.15	.10	.62	
MANGILAO	12.00		.01	1.00	.52	.58	.32				.14			.73	1.85	2.00	2.60	.08	.65	.45			.01			.20	.01		.58	.20	.07	
ROTA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
SAIPAN LORAN	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
WAKE WSO AP	4.37	.01	.06	.01	.20	.01			1.52	.14			.35	.83		T	T		.16	.31				.08	.06	T	.02	.05	.10	.13	.33	
x x x																																
CAROLINE AND																																
MARSHALL ISLANDS																																
ANGUAK	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
ENIETAK	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
FALALOP I., ULITHI	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
KAPINGMARANGI ATOLL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
KOROR WSO	12.65	.21	2.09	1.63	.15	1.29				.03										T	.17	1.05	2.70	.08		.32	.01		.01	2.88	.03	
KWAJALEIN MISSILE RCN	8.17	.07	.27	1.02	.01	T	1.85	2.00	.48	T		T		T	T	.05	.69	.22		.03	.02	T	T	.01	T	.01	.20	1.15	.05	.03	.01	
LELE I., KUSAE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
MAJURO WSO AP	9.72	1.01	.09	.10		.48	.86	1.30			.01	.06	.20	.07	.01	.58	T	.17	.08	3.62	.04				.03	.02	T	T	.20	.99		
METALANIM	10.27	2.04	.29	.23	T	1.20	.23	1.15	.05	.04		.34	.43	1.74	.35	.06	.66	.04	.14	.06	.39	.10	.04	.01		.11			.55	.02		
MOJIL ATOLL	18.25	.20	.10	1.90	.94	.11	1.30	1.55	.02	T	1.10	.05	2.00	.84		T	.05	2.00	.85	.01	T	.90		2.00	2.00	.23	.05	.05		T		
NGASANG, BABEL THUAP	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
PONAPE WSO	10.88	.18	.18	.07	.37	.26	1.65	.55				.08	.40	.57	.54	.52	3.33		.37	T	.09	.75	.07	.07	.06	T	.33		.03	.09	.32	
SATAWAN ATOLL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
TRUK, MOEN I., WSO AP	13.94	1.32	.06	1.40	.13	.08	2.57	T	1.74	.31	.03	.83	.15	.22	T			1.49	T			.12	.26			.40	2.65	.04			.14	
WOLEAI ATOLL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
YAP WSO AP	18.73	.06	3.11	6.20	.03	.02	.01	.24	.05	.50	.51	1.26	.71	.01	.25	T			.07	2.83	.69	.18	.12	.64	.28				.75	T	.20	

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# DAILY TEMPERATURES

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STATION		DAY OF MONTH																															AVERAGE
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
HAWAII																																	
ISLAND OF KAUAI																																	
KANALOHULUHULU 1075	MAX MIN	72 59	74 58	72 59	72 56	74 56	71 55	73 51	75 52	74 53	72 52	72 54	73 53	74 51	74 52	78 55	73 57	70 58	75 58	73 49	73 47	72 51	74 52	71 58	73 59	74 55	72 50	70 46	71 46	72 53	74 51	72.9 53.5	
KILAUEA POINT 1133	MAX MIN	84 74	84 74	80 72	84 74	85 73	86 72	84 74	84 74	86 74	86 74	85 74	86 75	87 74	86 75	86 76	86 76	86 75	86 73	86 74	86 74	86 73	84 74	85 73	86 72	84 73	86 71	86 71	86 73	85 74	86 75	85.3 73.8	
KOLOA LN (MAK) 940.1	MAX MIN	86 72	86 73	85 70	86 75	87 74	87 72	87 69	85 72	87 72	88 72	88 74	88 73	88 74	88 76	89 76	88 75	87 74	87 74	86 73	86 72	88 75	87 75	86 74	86 75	86 74	86 75	87 74	86 75	86 74	86 75	87.3 73.3	
LIMUE WSO 1020.1 AP	MAX MIN	86 75	84 74	85 77	86 77	87 76	85 73	84 76	86 71	86 73	85 77	86 76	86 77	86 78	85 78	85 79	86 78	86 77	85 78	85 77	86 76	86 75	86 77	86 75	85 75	85 75	85 74	84 74	83 66	84 67	84 69	85.3 74.6	
MANA 1026	MAX MIN	91 68	91 68	89 67	91 64	90 64	89 68	87 68	86 67	89 71	89 69	90 70	91 69	90 68	90 69	89 69	90 69	89 66	90 67	90 66	90 67	90 68	90 67	90 65	90 67	90 66	89 65	89 66	89 65	87 62	88 67	89.4 67.3	
NIU RIDGE 1035	MAX MIN	89 60	87 61				88 61	89 61	88 60	86 62			89 61	89 62	89 61	89 61	89 61				89 61	89 61	89 61	89 61			89 61	89 61	89 61	86 66	86 66		
WAIAMI LOWER 1054	MAX MIN	79 68	78 69	76 67	78 66	78 67	79 67	77 66	79 64	79 67	79 68	79 69	79 68	79 69	79 69	78 69	78 68	79 67	78 66	79 65	78 66	79 67	79 68	78 68	77 68	79 65	79 62	78 60	78 66	79 62	79 62	78.3 66.7	
ISLAND OF OAHU																																	
ALOHA STADIUM-HALAWA	MAX MIN	86 74					86 70	86 71	86 70	87 70	88 73	88 72	87 73	89 73	90 71	89 72				87 71	86 72	86 72	89 74	89 74			85 70	87 68	88 68	91 69	86 70	87.4 71.3	
B Y U LAIE 903.1	MAX MIN																																
EWA PLANTATION 741	MAX MIN	88 73	89 74				89 68	89 71	89 69	87 70		90 69	88 70	89 70	87 69	90 68				89 67	90 70	89 68	89 70	89 73			89 68	87 64	87 65	87 68	85 69	88.4 69.2	
HONOLULU WSO 703 AP	MAX MIN	89 77	88 75	89 75	88 75	88 75	89 75	89 76	89 74	88 76	90 78	90 72	90 76	89 76	90 75	89 77	88 76	88 76	89 74	89 76	89 76	89 76	89 76	88 74	89 75	89 74	88 75	87 72	86 70	86 69	87 71	88.4 74.8	
KANEHE MAUKA 781	MAX MIN	83 73	83 72	78 72	82 73	82 73	82 72	84 73	82 72	84 73	78 73	82 72	84 74	83 74	82 73	86 73	82 74	81 73	83 73	82 74	82 74	82 73	84 74	83 73	83 73	83 72	83 72	84 73	84 73	83 72	83 72	82.6 72.9	
MANOA LYON ARBORETUM	MAX MIN	82 69	78 70	76 69	79 68	80 69	79 68	80 69	82 68	82 69	80 69	84 71	84 71	83 72	85 71	85 71	84 72	79 70	77 70	82 69	83 70	83 69	81 71	79 70	79 67	79 68	78 65	80 66	86 66	85 65	82 65	81.2 69.0	
OPAEULA 870	MAX MIN	85 67	80 69	80 67	80 65	80 66	80 66	80 67	80 68	80 66	83 66	83 67	86 70	86 70	84 69	86 69	85 69	80 69	82 69	82 66	83 67	82 67	84 70	87 67	78 67	79 66	80 67	80 62	89 62	85 64	88 65	82.6 67.0	
WAIALEE 896.3	MAX MIN	84 70	84 72	84 68	84 73	83 72		83 71	80 70	82 71	84 73	83 73	85 75	84 74	84 74	86 74	86 77	83 75	84 72	84 74	85 74	85 74	85 71	85 71	84 72	85 71	83 71	83 73	84 69	82 71	85 71	83.8 72.1	
WAIALUA 847	MAX MIN	85 68	86 69	85 72	85 73	85 67	86 66	85 67	85 68	87 65	87 70	90 66	90 66	89 68	89 67	90 67	90 69	86 71	85 67	85 66	88 64	88 64	87 66	89 69	86 69	85 72	85 68	86 66	87 61	85 62	85 65	86.7 67.2	
WAIKIKI 717.2	MAX MIN	89 72	90 71	87 70	88 70	89 70	88 70	89 70	89 67	88 71	89 74	90 69	90 71	90 72	91 70	90 73	90 73	87 72	87 69	89 71	89 71	89 69	89 73	87 69	87 69	88 69	88 66	88 65	87 67	88 66	88 68	88.9 69.9	
WAIMANALO EXP FARM	MAX MIN	85 72	85 73	81 71	83 73	84 73	85 74	85 74	84 71	84 74	81 71	84 74	85 74	85 75	85 76	85 76	87 76	84 74	85 73	85 72	85 75	85 75	85 74	85 71	85 72	85 74	85 73	84 68	84 67	88 67	86 69	84.7 72.7	
ISLAND OF MOLOKAI																																	
MOLOKAI AP 524	MAX MIN	87 75	85 74	86 74	85 72	86 73	87 69	85 71	83 72	85 69	84 71	84 71	88 68	85 69	83 72	88 70	88 70	86 74	86 74	86 74	86 74	85 73	85 69	83 75	87 73	87 69	83 75	86 69	86 66	84 66	85 70	85.5 70.8	
ISLAND OF LANAI																																	
LANAI AIRPORT 656	MAX MIN	85 64	82 64	84 64	83 64	81 63	82 62	83 66	81 65	82 68	83 66	82 65	82 66	84 65	85 64	83 64	80 65	82 67	83 67	85 64	81 65	83 64	82 66	82 66	81 63	83 63	83 63	81 63	80 66	81 60	81 63	83 63	82.3 64.5
LANAI CITY 672	MAX MIN																																
ISLAND OF MAUI																																	
HALEAKALA R5 338	MAX MIN	70 50	68 54	67 46	65 44	64 40	64 43	67 45	65 45	66 51	70 50	72 50	73 49	72 48	70 45	65 41	63 47	65 47	63 47	66 45	65 47	70 52	73 46	72 45	64 45	61 40	61 41	60 42	62 42	61 44	63 45	66.2 45.9	
HANA AIRPORT 355	MAX MIN	85 70	82 69	84 70	83 65	84 63	85 69	84 70	82 69	85 73	84 73	85 72	83 72	84 72	85 72	85 71	82 72	82 70	85 71	82 70	84 70	84 70	81 73	81 75	81 70	85 70	85 69	88 66	85 66	85 68	85 71	84.0 70.0	
KAAHAPALI AP 453.1	MAX MIN	87 75	87 75	86 72	84 73	86 68	85 66	84 69	86 67	87 70	82 69	85 71	87 69	86 72	86 74	85 78	85 75	86 74	84 75	87 69	86 71	85 73	86 70	85 73	86 70	85 73	85 69	85 69	87 69	87 65	83 69	85.5 70.6	
KAHULUI WSO 398 AP	MAX MIN	90 76	88 73	86 74	88 73	86 71	88 64	86 75	93 68	87 70	90 71	88 69	88 71	93 69	93 68	88 74	86 75	88 74	88 74	87 65	89 68	93 71	89 75	87 76	88 74	89 69	84 66	83 66	83 67	84 67	89 69	88.4 71.0	
KAILUA 446	MAX MIN	80 69	79 69				79 66	79 66	79 67	81 70		82 69	82 70	82 70	81 70	81 69				80 67	79 68	80 68	82 70	82 70			80 66	81 66	81 66	82 67	82 67	80.6 68.0	
KEANAKAPU BEACH 260.2	MAX MIN	90 69	90 68	92 67	93 67	90 65	88 65	91 69	89 67	89 71	90 69	92 67	90 67	91 68	90 67	91 67	89 67	91 67	91 65	88 67	92 69	92 69							90 67	87 68	89 69	90.3 68.0	
KULA SANATORIUM 267	MAX MIN	78 60	79 58	79 58	78 58	77 59	76 60	76 61	77 61	75 60	78 61	77 62	76 59	75 59	76 60	76 60	74 61	76 61	78 58	78 60	73 59	78 61	80 64	78 61	76 58	76 59	76 58	75 59	75 59	76 59	79 59	76.8 59.7	

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# DAILY TEMPERATURES

HAWAII AND PACIFIC  
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STATION		DAY OF MONTH																															AVERAGE	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
HAWAII																																		
LAHAINA 361	MAX MIN	89 74	90 70	89 69	90 68	89 67	88 68	89 69	90 71	90 72	89 69	88 68	88 71	88 70	88 70	90 69	90 69	89 68	84 68	88 68	90 68	88 71	89 72	89 69	90 68	82 68	86 68	84 69	88 70	87 71			88.3 69.4	
WAILUKU 386	MAX MIN	84 73	84 73				85 70	83 73	83 72	87 73			85 73	85 73	86 72	85 73	86 74			84 72	82 73	85 74	86 74	83 74			83 71	82 71	83 68	85 69	85 70		84.3 72.1	
ISLAND OF HAWAII																																		
HAWAII VOLCANO NP HD 54	MAX MIN	75 69	70 71		72 67	71 70		71 67		72 71	76 72					77 71	75 71	73 68	74 72	74 70								71 68		71 68	73 68	73 69		71.8
HILO WSO AP 87	MAX MIN	86 69	85 71	85 67	86 67	85 70	86 67	84 71	89 70	88 72	85 71	88 68	90 71	86 72	87 72	89 69	82 72	81 71	85 67	82 68	86 68	87 70	85 69	84 68	87 69	86 68	83 69	85 68	87 67	87 68	86 69		85.7 69.3	
KAINALIU 73.2	MAX MIN	80 64	80 65	79 60	80 62	80 62	82 61	80 63	80 63	80 61	80 63	84 65	78 61	80 63	82 63	79 62	84 64	79 64	79 62	80 63	80 67	81 69	79 63	82 63	80 64	81 64	80 64	84 63	82 64	84 63			80.6 63.3	
KAMUELA 192.2	MAX MIN	74 62	75 63				75 60	77 63	76 63	79 62			78 62	78 62	75 63	79 67			75 61	74 62	75 63	76 62					76 55	75 54	80 54	80 55	81 55		76.7 60.5	
KAPOHO BEACH 93.11	MAX MIN	87 74	89 72		84 71	89 70	87 68	87 70	88 71				89 71	91 71	87 71	88 70	91 73	83 70	85 71	87 69	87 70	88 71	90 72	89 70	86 70	86 68	85 69	88 69	90 68	90 68	91 72		87.7 70.3	
KEAAU 92	MAX MIN	85 68	84 68	83 65	83 66	82 66	81 66	82 66	82 69	84 69	82 70	83 67	86 68	85 69	84 69	84 68	79 69	78 67	82 66	80 66	82 67	84 67	82 68	83 66	83 67	81 67	82 66	83 66	85 67	84 67			82.7 67.3	
KOHALA MISSION 175.1	MAX MIN	81 71	82 71	81 70	80 71	81 68	81 66	81 68	82 67	83 71	82 70	83 68	82 67	83 70	83 68	82 69	82 69	80 72	81 69	81 69	82 70	82 70	82 69	80 68	81 68	82 66	82 66	84 66	82 67			81.7 68.6		
KONA (KAILUA) 68.3	MAX MIN	85 74	87 73				89 70	86 72	86 73	85 73			89 73	87 72	88 73	88 74			88 73	86 72	88 74	86 74				87 72	87 72	86 71	87 71	87 71			87.0 72.7	
KULANI CAMP 79	MAX MIN	71 50	71 53	67 48	67 47	64 57	65 55	68 48	71 49		72 47	68 60	68 47	66 52	69 51	69 56		67 50	64 47	62 50	65 46	64 42	68 50	78 52	63 50	66 49	60 48	65 48	59 46	64 47	65 46		66.6 49.7	
MAUNA LOA SLOPE OBS	MAX MIN	61 42	58 39	58 38	54 37	54 36	53 38	54 40	55 40	58 40	59 42	58 41	58 41	58 42	58 42	57 40	53 39	48 37	49 37	50 37	54 40	57 40	55 38	52 36	51 34	52 36	54 40	57 41	54 39	56 39			55.1 39.1	
MOUNTAIN VIEW 91	MAX MIN	81 64	80 64	77 62	80 60	80 60	80 60	78 61	76 63	82 65	81 65	79 63	79 63	83 64	79 65	81 63	80 63	74 65	78 61	78 61	77 61	76 60	80 63	76 64	79 62	79 62	79 62	81 61	80 61	78 62			79.0 62.4	
NAALEHU 14	MAX MIN	83 68	83 68				83 67	82 68	79 69	83 69			82 67	83 67	80 68	81 67	81 69			82 66	80 68	81 67	81 66				84 66	81 67	83 66	83 66	82 68		81.8 67.2	
OOKALA 223	MAX MIN	78 70	82 70	81 70	82 69	82 67	80 68	80 68	79 68	82 70	81 70	81 69	82 70	81 70	82 71	83 70	77 69	79 67	80 67	75 66	75 66	80 67	83 70	82 72	82 64	81 67	80 68	82 69	83 69	82 69			80.6 68.7	
OPIHIHALE 2 24.1	MAX MIN	81 61	83 59	80 59	81 58	83 60	83 61	81 60	81 61	83 61	85 62	81 64	82 59	84 61	85 63	82 61	83 65	84 61	83 62	80 62	84 62	84 65	81 64	82 62	79 58	82 60	82 59	84 58	84 59	83 59	83 59			82.4 60.8
PAHALA 21	MAX MIN	84 64	84 65				86 64	83 66	79 64	84 67			84 64	83 66	81 65	83 65			82 63	81 65	81 64	83 65	84 66				85 64	82 66	83 66	81 65	81 64		82.8 65.0	
PUUKOHOLA HEIRU 98.1	MAX MIN																									90 72	91 76	93 71	92 70	91 70	92 70	88 70	87 69	89 72
SOUTH KONA 2.31	MAX MIN	83 61	83 58	82 59	81 57	81 57	83 61	81 60	81 60	83 61	82 61	83 64	82 58	84 60	80 63	83 62	81 61	81 62	83 61	82 69	77 61	81 61	83 61	82 69	77 61	81 61	79 59	79 60	75 57	79 57	80 58		80.8 60.4	
UPOLU POINT USCG 159.2	MAX MIN	86 75	87 72	84 76	86 69	86 69	87 74	86 71	88 79	90 76	90 71	89 76	89 71	88 70	89 77	89 71	89 71	86 76	87 72	86 71	87 77	87 71	87 71	87 75	86 71	86 70	87 73	87 72	86 70	88 70			87.3 72.7	

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# DAILY TEMPERATURES

HAWAII AND PACIFIC  
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STATION		DAY OF MONTH																															AVERAGE	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
PACIFIC																																		
• • •																																		
EAST OF 180TH MERIDIAN																																		
CANTON ISLAND	MAX MIN	91 82	91 81	91 81		91 81	91 81	91 81	88 80	87 79	86 80		90 81	90 82	89 81	91 79	88 80	89 80		94 81	91 81	90 82	90 80	89 81	88 81		90 81	91 82	92 82	91 83	91 83		90.0 81.0	
JOHNSTON IS WSO AP	MAX MIN	85 80	86 80	84 78	84 78	81 75	84 77	83 76	83 79	83 75	85 80	83 78	84 77	85 79	85 77	86 80	86 80	85 80	85 80	85 80	86 79	86 80	85 78	85 80	83 75	84 78	85 81	85 80	85 79	84 80	82 77	84 78		84.2 78.4
LEONE	MAX MIN							80 77	84 77	86 78	86 78	86 78	83 75	84 75	86 77	86 78	87 77	87 80		87 78	89 78	87 79	87 81	89 80	83 78	86 81	86 80	88 82	88 78	87 81	87 80		86.0 78.4	
FRENCH FRIGATE SHOALS	MAX MIN	85 68	85 68	88 66	85 75	86 76	86 76	86 76	88 76	86 78	86 78	87 78	87 77	87 79	86 77	86 80	84 62	85 74		86 74	83 78	84 78	84 78	87 76	87 72	88 72	87 69	87 72	87 71	87 74	86 70		86.1 74.2	
MIDWAY SAND ISLAND	MAX MIN	85 72	82 68	84 72	84 72	83 73	83 70	84 74	84 74	83 73	84 70	85 73	82 74	81 72	82 74	80 70	83 75	87 74	82 74		83 70	78 68	80 64	84 68	85 76	86 77	84 76	82 72	82 74	80 70	78 68	80 70		82.7 71.9
PAGO PAGO WSO AP	MAX MIN	80 75	82 76	82 76	85 77	86 77	84 74	79 70	80 67	84 68	83 67	84 75	81 75	81 74	81 68	82 67	83 66	84 71		85 77	83 76	83 73	83 70	84 76	84 77	84 76	85 79	86 79	85 78	86 74		83.2 73.7		
• • •																																		
WESTERN PACIFIC ISL. NORTH OF 12 N																																		
ANDERSEN AFB GUAM	MAX MIN	87 79	84 77	82 79	83 76	83 77	85 75	83 75	84 77	84 76	84 76	85 76	82 77	80 73	80 72	81 74	80 73	80 76	84 74		84 74	84 75	84 78	84 76	85 79	84 77	84 76	84 77	81 75	84 79	85 80		83.3 76.1	
CLARK AFB LUZON	MAX MIN	86 73	86 73	79 73	82 72	82 72	88 73	86 73	88 72	86 73	86 73	82 72	84 72	88 72	88 73	88 75	86 75	82 72	88 73		88 73	90 75	86 77	86 73	84 73	86 75	86 73	88 70	88 77	88 73	88 75		86.1 73.3	
GUAM NAS	MAX MIN	91 79	88 79	85 80	86 80	86 79	89 78	86 77	88 79	88 78	88 78	84 78	84 74	82 75	82 74	83 74	82 78	87 77		88 76	87 76	88 78	88 76	89 78	91 80	85 76	87 79	89 77	88 78	85 79	90 80		86.8 77.6	
GUAM WSMO	MAX MIN	88 71	87 74	84 74	85 73	85 75	88 71	86 73	85 72	87 72	87 72	84 75	83 68	82 71	81 72	81 71	82 74	87 73		85 73	86 72	88 71	87 71	87 70	87 74	86 71	88 70	87 71	84 72	88 75	87 75		85.7 72.3	
SAIPAN LORAN	MAX MIN																																	
WAKE WSO AP	MAX MIN	90 79	90 76	90 75	88 76	90 77	88 78	91 77	88 73	89 75	89 78	88 76	89 74	88 77	87 79	87 79	88 80	85 75	88 75		89 76	89 77	89 78	88 77	88 77	90 75	89 78	90 77	92 77	90 78	89 74	86 76		88.8 76.7
• • •																																		
CAROLINE AND MARSHALL ISLANDS																																		
ENIWETAK	MAX MIN																																	
FALALOP I. ULITHI	MAX MIN																																	
KAPINGMARANGI ATOLL	MAX MIN																																	
KOROR WSO	MAX MIN	86 77	85 74	82 73	85 78	82 73	86 80	87 81	88 77	88 80	88 79	87 80	87 80	88 80	88 80	88 80	88 79	89 79		89 76	87 78	83 74	80 72	88 77	91 76	88 77	88 77	89 77	88 77	89 78		87.0 77.3		
KWAJALEIN MISSILE RGN	MAX MIN	87 81	87 77	87 75	88 80	89 80	83 77	84 75	87 76	87 79	88 80	88 79	89 78	89 80	91 79	86 75	85 77	88 80		91 79	89 78	88 81	89 82	90 77	89 79	89 82	89 77	84 75	89 79	89 80	90 80		87.9 78.6	
LELE I. KUSAIE	MAX MIN																																	
MAJURO WSO AP	MAX MIN	85 75	87 77	87 78	89 80	87 76	86 74	82 73	86 79	87 80	87 78	90 79	84 75	90 76	88 75	86 75	89 76	88 76		87 73	87 73	89 79	90 78	90 81	89 81	88 78	88 78	90 76	89 80	90 76		87.9 76.8		
METALANIM	MAX MIN	87 72	86 73	84 73	86 75	86 73	87 73	82 73	86 73	88 75	87 74	87 74	86 76	87 72	87 71	82 73	88 72	88 74		91 73	85 73	88 74	90 73	91 71	89 72	89 72	89 74	89 72	88 74	89 75		87.3 73.2		
PONAPE WSO	MAX MIN	89 75	91 73	89 73	91 73	91 74	90 73	83 73	90 72	89 76	90 72	91 74	91 72	90 73	90 71	85 72	91 72	88 74		89 73	85 72	89 73	89 74	90 74	91 74	92 72	93 73	91 72	90 75	92 74	89 75		89.6 73.3	
SATAWAN ATOLL	MAX MIN																																	
TRUK. MOEN I. WSO AP	MAX MIN	89 76	86 78	87 75	87 73	89 77	87 75	87 77	84 73	88 73	88 77	83 75	87 76	89 73	86 75	87 77	89 75	89 77		90 77	89 76	90 76	89 75	90 76	89 77	89 76	89 73	89 74	89 77	91 75	89 78		88.0 75.4	
WOLEAI ATOLL	MAX MIN																																	
YAP WSO AP	MAX MIN	87 74	87 72	81 72	88 74	88 75	87 76	88 74	85 74	84 75	88 71	88 73	85 74	86 72	87 76	88 75	88 77	84 77		85 72	87 72	85 75	88 72	88 72	87 74	87 75	88 76	89 74	88 74	87 71	88 75		86.6 73.9	

SEE REFERENCE NOTES FOLLOWING STATION INDEX



# EVAPORATION AND WIND

HAWAII AND PACIFIC  
SEPTEMBER 1977

STATION	DAY OF MONTH																															TOTAL OR AVG.
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
HAWAII																																
* * *																																
ISLAND OF KAUAI																																
LIHUE WSO 1020-1 AP	EVAP	.34	.33	.44	.46	.51	.37	.30	.37	.59	.35	.32	.38	.36	.34	-	.30	.37	.45	.39	.35	.43	-	.46	.34	.35	.39	.33	.49	.19	.15	11.208
	WIND	243	282	296	285	250	215	195	159	136	194	152	162	168	177	159	187	230	242	203	159	204	224	257	249	221	167	119	98	62	72	5767
	MAX	89	89	85	87	86	88	86	85	90	90	91	91	90	90	91	91	91	91	91	91	91	90	92	83	86	88	89	87	88	88	88.9
	MIN	69	70	69	70	68	69	68	66	68	70	72	70	71	71	72	72	70	69	68	70	71	72	68	69	68	68	63	62	64	66	68.8
* * *																																
ISLAND OF OAHU																																
HONOLULU OBSERV 702-2	EVAP	.43	.38	.30	.45	.30	.37	.30	.39	.36	.18	.30	.37	.30	.36	.30	.37	.45	.35	.45	.49	.30	.38	.38	.40	.32	.45	.15	.17	.15	.30	10.20
	WIND	46	55	61	49	35	29	27	27	21	23	23	26	34	53	36	38	35	35	34	25	33	37	46	41	32	26	20	39	30	27	1043
	MAX	95	94	93	92	92	92	92	93	90	94	92	93	89	93	92	91	94	91	94	91	90	91	94	90	91	90	86	90	90	90	91.6
	MIN	71	70	70	69	68	69	70	70	70	68	69	70	70	70	70	71	70	69	68	69	68	71	71	69	67	68	67	68	68	70	69.3

SEE REFERENCE NOTES FOLLOWING STATION INDEX

# EVAPORATION AND WIND

HAWAII AND PACIFIC  
SEPTEMBER 1977

STATION	DAY OF MONTH																															TOTAL OR AVG.
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
PACIFIC																																
■ ■ ■ EAST OF 180TH MERIDIAN																																
JOHNSTON IS WSO AP	EVAP	.41	.41	.40	.46	-	.30	-	.82	.34	-	-	.20	.30	.28	.28	.36	.42	.40	.26	.23	.29	.34	.27	.22	.33	.33	.35	.28	.16	.04	9.788
	WIND	192	236	212	248	280	168	156	184	199	189	150	116	106	130	61	145	192	197	150	67	73	138	235	180	162	156	150	123	100	127	4822
	MAX	92	89	89	87	84	89	84	90	87	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	MIN	74	78	74	72	71	73	69	75	72	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
■ ■ ■ WESTERN PACIFIC ISL. NORTH OF 12 N																																
GUM WSMO	EVAP	.32	.10	.07	.24	.09	.21	.25	.12	.18	.20	.18	.04	.18	.29	-	-	.11	.20	.18	.12	.30	.18	.16	.22	.14	.12	.21	.17	.15	.16	5.248
	WIND	11	107	155	123	73	36	23	28	39	40	24	67	150	122	99	103	90	88	60	56	39	39	32	65	21	23	44	47	83	50	1947
	MAX	94	87	85	87	85	96	89	92	92	97	92	86	78	79	76	76	79	87	92	92	96	93	91	95	90	94	94	87	96	92	89.0
	MIN	73	76	74	74	74	73	75	73	74	74	75	75	73	71	72	72	73	74	73	73	73	72	72	74	74	73	74	73	74	74	73.5

SEE REFERENCE NOTES FOLLOWING STATION INDEX

## STATION INDEX

HAWAII AND PACIFIC  
SEPTEMBER 1977

STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES				OBSERVER
								TEMP.	PRECIP.	EVAP.	SPECIAL (SEE NOTES)	
HAWAII												
ISLAND OF KAUAI												
ALEXANDER RESV. 983	0140	02	KOLOA	2	21 57	159 32	1610					MCBRYDE SUGAR CO.
ANAHOLA 1114	A 0145	01	KAWAIIHAU	1	22 08	159 18	180		7A			LIHUE PLANTATION CO
BRYOE5W000 STA 985	A 0240	02	KOLOA	2	21 56	159 32	720		7A			MC BRYOE SUG CO LTD
EAST LAWA 934	A 0456	02	KOLOA	2	21 55	159 30	440		7A			MC BRYOE SUG CO LTD
ELEELE 927	A 0470	02	KOLOA	2	21 54	159 35	150		6A			MC BRYOE SUG CO LTD
HALAULA 1110	A 0935	01	KAWAIIHAU	1	22 07	159 19	253		7A			LIHUE PLTN CO LTD
HALENANAO 1006	A 1038	02	LIHUE	2	21 58	159 26	490		8A			LIHUE PLANTATION CO
HANAHANAPUNI 1055.2	1140	02	KAUAI	2	22 03	159 25	600					LIHUE PLANTATION CO LTD
HANAIEI TUNNEL 1053	A 1170	01	KAWAIIHAU	1	22 05	159 28	1218				S	LIHUE PLTN CO LTD
HUKIPO 945	2161	03	WAIMEA	3	21 59	159 41	800		8A			KEKAHA SUGAR CO LTD
ILIILIULA INTAKE 1050	A 2222	02	LIHUE	2	22 02	159 28	1050		VAR			LIHUE PLTN CO LTD
INTAKE WAINIHA PC 1086A	2227	01	HANAIEI	1	22 09	159 34	690		WI			MC BRYOE SUG CO LTD
KANALOHULUHULU 1075	3099	03	WAIMEA	3	22 08	159 40	3600	7A	7A			STATE DIVISION OF PARKS
KANEHA RESERVOIR 1092	A 3104	01	KAWAIIHAU	1	22 08	159 23	830		7A			LIHUE PLANTATION
KAPAA STABLES 1104	A 3159	01	KAWAIIHAU	1	22 05	159 20	175		7A			LIHUE PLTN CO LTD
KEALIA 1112	A 3982	01	KAWAIIHAU	1	22 06	159 19	9		7A			LIHUE PLTN CO LTD
KEKAHA 944	4272	03	WAIMEA	3	21 58	159 43	9		8A			KEKAHA SUGAR CO LTD
KILAUEA 1134	A 4561	01	HANAIEI	1	22 13	159 25	320		7A			NICK RAPOZO
KILAUEA POINT 1133	4568	01	HANAIEI	1	22 14	159 24	180	7A	7A			MRS ELIZABETH MACIOLEK
KOLO 1033	4735	03	WAIMEA	3	22 04	159 46	36		7A			KEKAHA SUGAR CO LTD
KOLOA 936	A 4742	02	KOLOA	2	21 55	159 28	240		8A			MCBRYDE SUGAR CO
KOLOA LN (MAK) 940.1	4748	01	KAUAI	2	21 52	159 27	52	7A	7A			AUSCG LORAN STATION
KOLOA MAUKA 994	A 4750	02	KOLOA	2	21 57	159 29	640		7A			MCBRYDE SUGAR COMPANY
KUKUIULA 935	A 4950	02	KOLOA	2	21 54	159 30	100		6A			MC BRYDE SUG CO LTD
LIHUE VARIETY ST 10621A	5560	02	LIHUE	2	22 01	159 23	380		7A			LIHUE PLANTATION CO LTD
LIHUE 1020	A 5575	02	LIHUE	2	21 59	159 22	207		7A			LIHUE PLTN CO LTD
LIHUE WSO 1020.1 AP	R 5580	02	LIHUE	2	21 59	159 21	103	MID	MID	7A	J	NATL WEATHER SERVICE
MAKAWELI 965	A 5864	03	WAIMEA	3	21 55	159 38	140		7A			OLOKELE SUGAR CO
MANA 1026	6082	03	WAIMEA	3	22 02	159 46	20	8A	8A			KEKAHA SUGAR CO LTD
MOHIHI UPR CROSS 1083	A 6433	01	WAIMEA	3	22 07	159 36	3500		MID			U S GEO SURVEY
MOLOAA 1145	A 6529	01	KAWAIIHAU	1	22 11	159 20	330		7A			THEODORE JAVELLANA JR
MOUNT WAIKALEALE 1047	R 6565	03	WAIMEA	2	22 04	159 30	5148		MID			U. S. GEO. SURVEY
NIU RIOGE 1035	6850	03	WAIMEA	3	22 02	159 44	1250	6A	6A			KEKAHA SUGAR CO LTD
N WAILUA DITCH 1051	A 6888	02	LIHUE	2	22 04	159 28	1110		7A			LIHUE PLTN CO LTD
N WAILUA RIVER 1055	A 6893	02	KIHUE	2	22 04	159 26	650				S	LIHUE PLTN CO LTD
PH WAINIHA 1115	8155	01	HANAIEI	1	22 12	159 34	101		6A			MC BRYDE SUG CO LTD
PRINCEVILLE RANCH 1117	8165	01	HANAIEI	1	22 13	159 29	295		9A			PRINCEVILLE RANCH INC
PUEHU RIOGE 1040	8205	03	WAIMEA	3	22 01	159 42	1660		8A			KEKAHA SUGAR CO LTD
PUHI 1013	A 8217	02	LIHUE	2	21 58	159 24	329		8A			LIHUE PLANTATION CO
WAIHAWA 930	A 8941	02	KOLOA	2	21 54	159 34	215		7A			MC BRYDE SUG CO LTD
WAIHI LOWER 1054	8958	02	LIHUE	2	22 01	159 27	565	6A	6A			LIHUE PLTN CO LTD
WAIHI UPPER 1052	8966	02	LIHUE	2	22 01	159 28	780		6A			LIHUE PLTN CO LTD
WAIWA 943	9253	03	WAIMEA	3	21 59	159 43	10		8A			KEKAHA SUGAR CO LTD
WAILUA KAI 1065	A 9467	02	LIHUE	2	22 02	159 21	50		7A			LIHUE PLANTATION
WAIMEA 947	9629	03	WAIMEA	3	21 58	159 41	20		8A			KEKAHA SUGAR CO.
WEST LAWA 931	A 9955	02	KOLOA	2	21 54	159 31	210		6A			MC BRYDE SUG CO LTD
ISLAND OF OAHU												
AHUIMANU LOOP 839.12	0055	01	KOOLAUPOKO	1	21 26	157 51	320					DON MITCHELL
ALOHA STADIUM HALAWA	0172	03	OAHU	3	21 23	157 56	40	8A	8A			ALOHA STADIUM
BERETANIA PUMPING STA	0211	02	HONOLULU	2	21 19	157 51	20		9A			BOARD OF WTR SUPPLY
B Y U LAIE 903.1	0240	01	KOOLAUPOKO	1	21 39	157 56	20	12M	12M			B Y U-HAWAII CAMPUS
CAMPBELL INO PK 702.5	0248	02	OAHU	3	21 19	158 07	10		8A			CHEVRON U S A INC
CAMP 84 807	A 0300	03	EWA	3	21 26	158 04	760		6A			DEL MONTE CORPORATION
COCONUT ISLAND 840.1	0350	01	KOOLAUPOKO	1	21 26	157 47	15		8A			H INST MARINE BIOLOGY
OWSETT HIGHLDS 780.8	0438	02	HONOLULU	2	21 21	157 50	565					J.L. BANNING
EWA PLANTATION 741	0507	03	EWA	3	21 21	158 02	5	9A	7A			OAHU SUGAR COMPANY
HALAWA SHAFT 771.2	0964	02	HONOLULU	2	21 23	157 54	170					BOARD OF WATER SUPPLY
HAWAII KAI CRSE 724.19	1308	02	OAHU	2	21 18	157 39	21					HAWAII KAI GOLF COURSE
HELEMANO INTAKE 881	A 1384	05	WAILUA	5	21 33	158 00	1274		WI			WAILUA SUGAR CO. INC.
HOKULOA 725.2	A 1540	03	EWA	3	21 24	158 06	2220					H. V. VON HOLT
HONOLULU OBSERV 702.2	1918	03	EWA	3	21 19	158 00	5		9A	9A		NATIONAL WEATHER SERV
HONOLULU WSO 703 AP	1919	02	HONOLULU	2	21 20	157 55	7	MID	MID		J	NATL WEATHER SERVICE
KAA LAKEI 724.6	2269	02	HONOLULU	2	21 18	157 43	10					MRS. MILLIE ZAPATA
KAENA POINT 841.3	2410	04	WAILUA	4	21 34	158 15	1240		9A			U S AIR FORCE
KAHANA 883	A 2462	01	KOOLAULO	1	21 31	157 54	800		WI			WAIHOLE WTR CO LTD

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# STATION INDEX

HAWAII AND PACIFIC  
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STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES				OBSERVER
								TEMP.	PRECIP.	EVAP.	SPECIAL (SEE NOTES)	
ISLAND OF OAHU												
KAHUKU 912	A 2570	01	KOOLAULOA	1	21 42	157 59	15					KIULIMA HOTEL
KAILUA FIRE STA 791.3	2683	01	KOOLAUPOKO	1	21 24	157 45	10		8A			KAILUA FIRE STATION
KALAMA VALLEY 724-13	2842	02	OAHU	2	21 18	157 41	75					CLOSED 8/31/77
KALIHI RES SITE 777	R 2960	02	HONOLULU	2	21 23	157 50	910		MIO			BOARD OF WTR SUPPLY
KANEOME MAUKA 781	3113	01	KOOLAUPOKO	1	21 25	157 49	325	7A	7A			STATE HOSPITAL
KAPALAMA 773	A 3268	02	HONOLULU	2	21 21	157 52	614		8A			KAMEHAMEHA SCHOOLS
KAWAIHAPAI 841	A 3734	05	WAIALUA	5	21 35	158 11	40		7A			WAIALUA SUGAR CO. INC.
KEMOO CAMP 8 855	A 4318	05	WAIALUA	5	21 33	158 05	725		7A			WAIALUA SUGAR CO. INC.
KOOLAU DAM 833	A 4766	05	WAIHAWA	5	21 30	157 58	1160		8A			C & F OFFICER HEOG
LULUKU 781.7	5655	01	KOOLAUPOKO	1	21 24	157 49	240				C	NATIONAL WEATHER SERV
MAKAHA PUMP 800.2	A 5782	04	OAHU	4	21 29	158 12	400		8A			CAPITAL INVESTMENT CO.
MAKAKILO 730.1	5789	03	OAHU	3	21 21	158 06	300		6A			NEAL ADAMS
MANOA 712.1	6122	02	HONOLULU	2	21 19	157 49	220		7A			MRS. JOHN H. BEAUMONT
MANOA LYON ARBORETUM	6128	02	OAHU	2	21 20	157 48	500	8A	8A			LYON ARBORETUM
MANOA TUNNEL 2 716	R 6130	02	HONOLULU	2	21 20	157 48	650		MIO			BOARD OF WTR SUPPLY
MAUNAWILI 787.1	6222	01	KOOLAUPOKO	1	21 21	157 46	395					EXP. STA. H.S.P.A.
MOANALUA 770	6395	02	HONOLULU	2	21 21	157 54	20		9A			JOHN A ROXBURGH
MOMILANI 835.1	6547	03	OAHU	3	21 25	157 58	325					CLOSED 8/31/77
MOUNT KAALA 844	6553	04	WAIANAE	4	21 31	158 09	4015				C	FEDERAL AVIATION ADM
NUUANU RES 4 783	6928	02	HONOLULU	2	21 21	157 49	1048		MIO			BOARD OF WTR SUPPLY
NUUANU RESERV 5 775	A 6933	02	HONOLULU	2	21 21	157 50	410		WI			BOARD OF WTR SUPPLY
OPAEULA 870	A 7150	05	WAIALUA	5	21 34	158 02	1060	7A	7A		C	WAIALUA SUGAR CO. INC.
PAIKO CR 723.4	7540	02	HONOLULU	2	21 17	157 44	10		6P			O L GRUBB
PALI GOLF COURSE 788.1	7656	01	OAHU	1	21 23	157 47	480		10A			CC DEPT PK5 RECREATION
PALOLO VALLEY 718	R 7664	02	HONOLULU	2	21 20	157 46	995		MIO			BOARD OF WTR SUPPLY
PAUOA FLATS 784	R 7810	02	HONOLULU	2	21 21	157 48	1640		MIO			BOARD OF WTR SUPPLY
PEARL COUNTRY CL 760.2	7942	03	OAHU	3	21 23	157 56	120				C	PEARL COUNTRY CLB OF HA
PUNALUU PUMP 905.2	8314	01	KOOLAULOA	1	21 35	157 54	20				C	MRS DAVID DELAO
PUNCHBOWL CRATER 709	A 8316	02	HONOLULU	2	21 19	157 51	360		8A			NAT MEM CEMETERY
PUPUKA HEIGHTS 896.4	8342	01	WAIALUA	1	21 39	158 02	900				C	JACK N. WHEELER
PUU MANAWAHUA 725.6	8500	03	OAHU	3	21 23	158 05	2080		8A			HUGH HAMILTON
SEA LIFE PARK 724.14	8665	01	OAHU	1	21 19	157 40	40					CLOSED 8/31/77
TANTALUS 2 780.5	8738	02	HONOLULU	2	21 20	157 50	1325		7A			R. E. WHITE
UNIV OF HAWAII 713	A 8815	02	HONOLULU	2	21 18	157 49	79		8A			DEPT OF GEOSCIENCE
UPPER WAIHAWA 874.3	8838	05	OAHU	5	21 31	158 01	1115		6A			W 8 RUTHERFORD
WAIHAWA DAM 863	A 8945	05	WAIHAWA	5	21 30	158 03	854		7A		C	WAIALUA SUGAR CO. INC.
WAIHOLE 837	A 8964	01	KOOLAUPOKO	1	21 28	157 53	745		8A		C	WAIHOLE WTR CO LTD
WAIALAE KAHALA 715	9185	02	HONOLULU	2	21 17	157 47	40		7A			SPENCER TINKER
WAIALEE 896.3	9190	01	KOOLAULOA	1	21 41	158 02	33	8A	8A			WAIALEE LIVESK RES FARM
WAIALUA 847	A 9195	05	WAIALUA	5	21 35	158 07	32	7A	7A			WAIALUA SUGAR CO. INC.
WAIANAE 798.2	A 9231	04	WAIANAE	4	21 27	158 11	10		7A			BEN MAYES
WAIKANE 836	A 9261	03	EWA	3	21 28	157 56	800		MO			WAIHOLE WTR CO LTD
WAIKANE 885	A 9340	01	KOOLAUPOKO	1	21 30	157 53	760		WI			WAIHOLE WTR CO LTD
WAIKIKI 717.2	9397	02	HONOLULU	2	21 16	157 49	10	8A	8A			HONOLULU ZOO
WAILUPE VLY SCH 723.6	9500	02	HONOLULU	2	21 18	157 45	180				C	WAILUPE VALLEY SCHOOL
WAIMANALO EXP FARM	9523	01	KOOLAUPOKO	1	21 20	157 43	60	7A	7A			WAIMANALO EXP FARM
WAIMANALO NONOKI 795.2	9534	01	OAHU	1	21 20	157 43	120				C	WAIMANALO EXP FARM
WAIMER 892	A 9593	05	WAIALUA	5	21 38	158 04	330		7A		C	WAIALUA SUGAR CO. INC.
WAIPIAHU 750	A 9738	03	EWA	3	21 23	158 01	59		8A			WAIHOLE WATER COMPANY
WILHELMINA RISE 721	R 9980	02	HONOLULU	2	21 18	157 47	1100		MIO			BOARD OF WTR SUPPLY
ISLAND OF MOLOKAI												
KALAUPAPA 563	A 2896	01	MOLOKAI	1	21 12	156 59	30		8A			KALAUPAPA SETTLEMENT
KAUNAKAKAI 536	3541	01	MOLOKAI	1	21 06	157 01	12		7A			MOLOKAI RANCH LTD
KAUNAKAKAI MAUKA 536.5	3547	01	MOLOKAI	1	21 06	157 01	70				C	MOLOKAI GENERAL HOSP.
KEONELELE PENS 551	A 4394	01	MOLOKAI	1	21 12	157 12	560		VAR			MOLOKAI RANCH, LTD.
KUALAPUU 534	A 4778	01	MOLOKAI	1	21 09	157 02	825		7A		C	OEL MONTE CORPORATION
MAUNALO A 511	A 6190	01	MOLOKAI	1	21 08	157 13	1070		9A			MOLOKAI RANCH COMPANY
MOLOKAI AP 524	6534	01	MOLOKAI	1	21 09	157 06	450	8A	8A			ALOHA AIRLINES
PUU O HOKU RANCH 542.1	8549	01	MOLOKAI	1	21 09	156 44	700		6A		C	PUU O HOKU RANCH
WAIKOLU 540	A 9404	01	MOLOKAI	1	21 08	156 55	3550		WI			MOLOKAI RANCH COMPANY
ISLAND OF LANAI												
KANEPUU 690	A 3130	01	LAHAINA	1	20 52	157 00	1650		WI			U S O A
KAUNALAPAH HARBOR 658	3461	01	LAHAINA	1	20 47	157 00	30		8A		C	OOLE COMPANY
LANAI AIRPORT 656	5275	01	LAHAINA	1	20 48	156 57	1300	8A	8A			HAWAIIAN AIR
LANAI CITY 672	A 5286	01	LAHAINA	1	20 50	156 55	1620		7A		C	OOLE COMPANY
LANAIHALE 684	A 5301	01	LAHAINA	1	20 49	156 53	3370		WI			U S O A

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								TEMP.	PRECIP.	EVAP.	SPECIAL (SEE NOTES)	
ISLAND OF LANAI												
MAHANA 694	A 5704	01	LAHAINA	1	20 52	156 55	1430		MO			U S D A
MALAUER 676	A 6012	01	LAHAINA	1	20 46	156 55	1150		WI			U S D A
WAIKAEKUA 685	A 9021	01	LAHAINA	1	20 47	156 52	2000		WM			KOELE COMPANY
ISLAND OF MAUI												
AUWAHI 252	A 0175	02	HANA	2	20 37	156 20	2060		VAR			ULUPALAKUA RANCH
HAELAAU 477	0790	04	LAHAINA	4	20 57	156 36	2980				S	MAUI LANO-PINEAPPLE CO
HALEAKALA 8 E S 434	A 0995	01	MAKAWAO	1	20 51	156 18	2100		7A			U OF H AGRIC EXP STA
HALEAKALA RANCH 432	A 0999	01	MAKAWAO	1	20 50	156 19	1850		8A			HALEAKALA RANCH CO
HALEAKALA RS 338	1004	02	MAKAWAO	2	20 46	156 15	7030	8A	8A			HALEAKALA NAT PARK
HALIIMAILE 423	A 1075	01	MAKAWAO	1	20 52	156 21	1070		3A			MAUI LANO-PINEAPPLE CO
HAMAKUAPOKO 485	1086	01	MAKAWAO	1	20 55	156 21	320		5A			HAWAIIAN COM & SUG CO
HANA 354	A 1122	01	HANA	1	20 45	155 59	120		8A		C	HARRY HASEGAWA
HANA AIRPORT 355	1125	01	HANA	1	20 48	156 01	61	8A	8A			ROYAL HAWAIIAN AIRLINES
HOLUA LABIN 259.5	A 1552	02	MAKAWAO	2	20 45	156 13	6930		MO			HALEAKALA NATL PARK RGS
HONOKOHU 480	A 1882	04	LAHAINA	4	20 58	156 36	870		MO			MAUI LANO-PINEAPPLE CO
HONOKOHU 493	A 1887	04	LAHAINA	4	21 00	156 39	135		6A			MAUI LANO-PINEAPPLE CO
HONOLUA FLO 49 494	1914	04	LAHAINA	4	21 01	156 38	125				S	MAUI LANO-PINEAPPLE CO
HONOMANU GULCH 341	A 1935	01	MAKAWAO	1	20 47	156 14	6280		MO			HALEAKALA RANCH CO
IAO NEEDLE 387.2	2208	03	WAILUKU	3	20 53	156 33	1080				C	STATE DIVISION OF PARKS
KAAHAPALI AP 453.1	2307	04	LAHAINA	4	20 56	156 42	8	8A	8A			AMFAC PROPERTIES INC
KAHOMA INTAKE 374	A 2552	04	LAHAINA	4	20 54	156 38	2000		WI			PIONEER MILL CO LTO
KAHULUI W50 398 AP	R 2572	03	WAILUKU	3	20 54	156 26	48	MIO	MIO		C J	NATL WEATHER SERVICE
KAILIILI 436	A 2630	01	MAKAWAO	1	20 51	156 16	2520		MO			E MAUI IRR CO LTO
KAILUA 446	2679	01	MAKAWAO	1	20 54	156 13	700	7A	7A			E MAUI IRR CO LTO
KAUULA INTAKE 375	A 3433	04	LAHAINA	4	20 53	156 38	1585		WI			PIONEER MILL CO LTO
KAUPO RANCH HOUSE 259	3576	02	HANA	2	20 39	156 08	1020				C	KAUPO RANCH
KEAHUA 410	3910	03	MAKAWAO	3	20 52	156 23	480		5A			HAWAIIAN COM & SUG CO
KEANAE 346	A 4091	01	HANA	1	20 50	156 10	980		MO			E MAUI IRR CO LTO
KEAWAKAPU BEACH 260.2	4193	02	MAKAWAO	2	20 42	156 27	20	8A	8A		C	ALLEN L CORELL
KIHEI 311	4489	03	WAILUKU	3	20 47	156 27	90		7A			HAWAIIAN COM & SUG CO
KIPAHULU 258	4634	01	HANA	1	20 39	156 04	260		7A			HANA RANCH-KIPAHULU SEC
KUKUI 380	4887	04	LAHAINA	4	20 54	156 35	5788				S	MAUI LANO-PINEAPPLE CO
KULA SANATORIUM 267	5006	02	MAKAWAO	2	20 42	156 22	3004	7A	7A			KULA SANATORIUM
LAHAINA 361	5177	04	LAHAINA	4	20 53	156 41	45	7A	7A		C	PIONEER MILL CO LTO
LAUNIUPOKO INTAKE 376	A 5404	04	LAHAINA	4	20 51	156 37	1280		WI			PIONEER MILL CO LTO
LAUNIUPOKO VILLAGE 372A	5408	04	LAHAINA	4	20 51	156 39	220		7A			PIONEER MILL CO LTO
LUPI UPPER 442	A 5665	01	MAKAWAO	1	20 53	156 15	1240		MO			E MAUI IRR CO LTO
MAHINAHINA 466	A 5715	04	LAHAINA	4	20 57	156 40	715		7A			PIONEER MILL CO LTO
MOKUPEA 475	6521	04	LAHAINA	4	20 59	156 37	1290				S	MAUI LANO-PINEAPPLE CO
NAKALELE FELD 60 497	A 6645	04	LAHAINA	4	21 02	156 36	340		VAR			MAUI LANO-PINEAPPLE CO
OLINDA 332	A 7040	01	MAKAWAO	1	20 48	156 17	4127		VAR			EAST MAUI IRRIGATION CO
OWALU 296.1	7059	04	LAHAINA	4	20 49	156 37	20		7A			PIONEER MILL CO LTO
PAAKEA 350	7194	01	HANA	1	20 49	156 07	1260		VAR		C	E MAUI IRR CO LTO
PAIA 406	7566	01	WAILUKU	1	20 55	156 23	170		6A			HAWAIIAN COM & SUG CO
PANILEIHULU 259.2	A 7674	02	HANA	2	20 41	156 08	3570		MO			KAUPO RANCH CO.
PEAHI 488.6	7952	01	MAUI	1	20 54	156 17	830		WI		C	BERNARD RUPLINGER
POHAKEA BRIDGE 307.2	A 8060	03	WAILUKU	3	20 49	156 31	167		6A			WAILUKU SUGAR CO
POLIPOLI SPRINGS 267.2A	8070	02	MAKAWAO	2	20 41	156 20	6150		VAR			STATE DIV OF FORESTRY
PUGHOKAMOA 2 343	A 8336	01	HANA	1	20 50	156 13	2980		MO			E MAUI IRR CO LTO
PUUNENE 396	8543	03	WAILUKU	3	20 53	156 27	60		7A			HAWAIIAN COM & SUG CO
PUU PAKI 352	A 8553	01	HANA	1	20 46	156 03	2160				S	EAST MAUI IRRIGATION CO
SPRECKELSVILLE 400.2	8688	03	WAILUKU	3	20 54	156 25	85		8A			HAWAIIAN COM & SUG CO
TWIN GATES 261.3	A 8742	03	MAKAWAO	3	20 46	156 23	1310		VAR			KAONOULU RANCH
UH AGRI RES CNTR 324.5	8743	02	MAUI	2	20 46	156 20	3050				C	UH MAUI AGRI RESCH CNTR
UKULELE 333	A 8744	01	MAKAWAO	1	20 48	156 15	5230		MO			HALEAKALA RANCH CO
UKUMEHAME 301	A 8750	04	LAHAINA	4	20 48	156 35	75		7A			PIONEER MILL CO LTO
ULUPALAKUA RANCH 250	8760	02	MAKAWAO	2	20 39	156 24	1900		8A		C	ULUPALAKUA RCH CO LTO
WAIKULI 364	A 8955	04	LAHAINA	4	20 54	156 40	580		8A			PIONEER MILL CO LTO
WAIHEHU CAMP 484	A 9275	03	WAILUKU	3	20 55	156 31	320		6A			WAILUKU SUGAR CO
WAIHEE VALLEY 482	A 9315	04	WAILUKU	4	20 57	156 32	300		6A			WAILUKU SUGAR CO
WAIKAMOI 449	A 9332	01	HANA	1	20 52	156 12	1200		MO			E MAUI IRR CO LTO
WAIKAMOI OAM 336	A 9335	01	MAKAWAO	1	20 49	156 14	4320		VAR		C	EAST MAUI IRRIGATION CO
WAIKAPU 390	A 9376	03	WAILUKU	3	20 51	156 31	370		6A			WAILUKU SUGAR CO
WAILUA IKI 348	A 9460	01	HANA	1	20 48	156 09	2630				S	EAST MAUI IRRIGATION CO
WAILUKU 386	A 9484	03	WAILUKU	3	20 54	156 30	180	7A	7A			WAILUKU SUGAR COMPANY
WAIOPAI RANCH 256	A 9765	02	HANA	2	20 38	156 12	220		OC			HALEAKALA RANCH CO

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								TEMP.	PRECIP.	EVAP.	SPECIAL (SEE NOTES)	
ISLAND OF MAUI												
ISLAND OF HAWAII												
AHUA UMI 75	A 0040	05	N KONA	5	19 38	155 47	5220		MO			W.H. GREENWELL RANCH
CITY OF REFUGE 27.4	0344	04	S KONA	4	19 25	155 55	15		9A			NAT HISTORICAL PARK
HAINA 214	0840	01	HAMAKUA	1	20 06	155 28	461		8A			HONOKAA SUGAR CO
HAKALAU 142	0905	02	S HILO	2	19 54	155 08	105		7A			MAUNA KEA SUGAR CO
HALEMAUMAU 52	A 1033	03	KAU	3	19 24	155 17	3648		MO			HAWAII NAT PARK
HALEPOHAKU 111	A 1065	02	HAMAKUA	2	19 46	155 28	9220		3P			MAUNA KEA OBSERVATORY
HA'S FARM 85.3	1270	02	HAWAII	2	19 40	155 06	580		8A			RICHARD HA JR
HAWAII VOLCANO NP HO 54	1303	02	KAU	2	19 26	155 16	3971	8A	8A	C		HA VOLCANOES NAT PK HOS
HAWI 168	A 1339	01	N KOHALA	1	20 14	155 50	580		6A	C		K L 80NO
HILO COUNTRY CLUB 86.6	1487	02	HAWAII	2	19 41	155 10	1600		7A	C		REX WILLS II
HILO WSO AP 87	R 1492	02	S HILO	2	19 43	155 04	36	M10	M10		J	NATL WEATHER SERVICE
HOLUALOA 70	A 1557	04	N KONA	4	19 38	155 55	3220		MO			STATE DIV OF FORESTRY
HOLUALOA BEACH 68	A 1562	04	N KONA	4	19 37	155 59	14		7A			CAPT COOK CATTLE CO
HONAHU 27	1665	04	S KONA	4	19 27	155 53	1089		7A			SHIGETO L TANAKA
HONOHINA 137	1701	02	N HILO	2	19 56	155 09	300		7A			MAUNA KEA SUGAR CO
HONOMU MAUKA 138	1960	02	S HILO	2	19 51	155 09	1100		7A			MAUNA KEA SUGAR CO
HONUAULA 71	A 2047	04	N KONA	4	19 40	155 53	6250		MO			STATE DIV OF FORESTRY
HUALALAI 72	A 2151	04	N KONA	4	19 42	155 52	8190		MO			STATE DIV OF FORESTRY
HUEHUE 92.1	A 2166	04	N KONA	4	19 45	155 59	1960		6A			HUEHUE RANCH
KAAALA IKI 12	A 2249	03	KAU	3	19 08	155 34	1340		WI			KAU SUGAR COMPANY, INC
KAAHALOA 29	A 2327	04	SOUTH KONA	4	19 30	155 55	1340		8A			CAPT COOK INVESTMENT CO
KAHIAWAI MAUKA 3.8	2512	03	KAU	3	19 08	155 46	4120					RUSSELL P. SMITH
KAHUA RANCH HOTRS	2600	01	HAWAII	1	20 08	155 48	3240					KAHUA RANCH COMPANY
KAINALIU 73.2	2751	04	N KONA	4	19 32	155 56	1500	7A	7A			KONA EXPERIMENT STA
KALAOA 69.22	2887	04	HAWAII	4	19 44	155 59	2000		8A			FLOYD W MC COY
KALAPANA 1 67.8	2894	02	S HILO	2	19 20	155 02	10		VAR			HAWAII VOLCANOES NAT PK
KAMAOA 2 5	A 3048	03	KAU	3	19 02	155 40	1375		WI			PARKER RCH-KAPAPALA DIV
KAMUELA 192.2	3077	01	S KOHALA	1	20 01	155 40	2670	6A	6A			PARKER RANCH
KAPAPALA RANCH 36	A 3300	03	KAU	3	19 17	155 27	2140		6A			PARKER RCH-KAPAPALA DIV
KAPOHO BEACH 93.11	3368	02	HAWAII	1	19 30	154 49	10	8A	8A			H E MC NICHOLS
KAPOHO LANDING 93.5	A 3369	02	PUNA	2	19 30	154 52	290		VAR			DEPT OF PUBLIC WORKS
KAWAINUI LOWER 193	A 3770	01	HAMAKUA	1	20 05	155 39	1080		WI			HONOKAA SUGAR CO
KEAAU 92	3872	02	PUNA	2	19 38	155 02	285	8A	8A			PUNA SUGAR CO
KEAIIWA CAMP 22.1	3925	03	KAU	3	19 14	155 29	1700					KAU SUGAR COMPANY, INC
KEALAKEKUA 26.2	3977	04	S KONA	4	19 30	155 55	1450					HERBERT KANE
KEALAKEKUA 2 28.7	3980	04	S KONA	4	19 30	155 55	1450	8A	8A			CLOSED 8/31/77
KEANAKOLU CAMP 124.2	4098	02	HAMAKUA	2	19 55	155 21	5280					STATE DIV OF FORESTRY
KIOLAKA A & F 6	A 4625	03	KAU	3	19 04	155 38	1925		MO			STATE DIV OF FORESTRY
KIPA 89.2	A 4632	02	S HILO	2	19 44	155 09	1490		WI			MAUNA KEA SUGAR CO.
KOHALA MISSION 175.1	4680	01	N KOHALA	1	20 14	155 48	537	7A	7A			K. LYMAN 80NO
KOIAWE LOWER 196	A 4685	01	HAMAKUA	1	20 05	155 38	720		WI			HONOKAA SUGAR CO
KONA (RAILROAD) 68.3	A 4764	04	N KONA	4	19 39	156 00	30	8A	8A			CHEVRON USA
KONA VILLAGE 93.8	4765	04	N KONA	4	19 50	155 59	20		8A			KONA VILLAGE RESORT HTL
KUKAIIAU 222	4815	01	HAMAKUA	1	20 02	155 21	840		6A			LAUPAHOEHOE SUGAR CO
KUKUIHALE HIC 199	4928	01	HAMAKUA	1	20 07	155 35	980		6A			HONOKAA SUGAR CO
KUKUIHALE MILL 206	A 4938	01	HAMAKUA	1	20 08	155 34	300		6A			HONOKAA SUGAR CO
KULANI CAMP 79	5011	02	S HILO	2	19 33	155 18	5170	8A	8A			ST DEPT OF SOCIAL SER
KULANI MAUKA 76	A 5018	05	N HILO	5	19 35	155 27	8300		WI			MAUNA LOA OBS.
KULANI SCHOOL SITE 78	A 5021	02	S HILO	2	19 35	155 20	5735		WI			ST DEPT OF SOCIAL SER
LALAMILO FLO OFF 191.1	5260	01	S KOHALA	1	20 01	155 41	2615					STATE DEPT OF L&N RES
LANIHAA 68.2	5330	04	N KONA	4	19 40	155 58	1530		7A			KONA EXPERIMENT STATION
LAVA TREE PARK 66.1	5460	02	PUNA	2	19 29	154 54	650					STATE DIV OF PARKS
MAKAHALA 103	5761	02	HAWAII	1	19 59	155 33	3820		6A			PARKER RANCH
MAUKA 2	A 6134	03	KAU	3	19 07	155 50	1760		WI			STATE DIVISION OF PARKS
MAUNA KEA OBS 111.2	6183	02	HAWAII	2	19 49	155 28	3770		7P			MAUNA KEA OBSERVATORY
MAUNA LOA SLOPE OBS	6198	05	HAMAKUA	5	19 32	155 35	1150	M10	M10			MAUNA LOA OBSERVATORY
MIDDLE HOLUALOA 68.1	A 6268	04	N KONA	4	19 37	155 58	500		7A			CAPT COOK CATTLE CO
MIDDLE PEN 147.1	A 6270	01	N KOHALA	1	20 06	155 50	1380		VAR			KAHUA RANCH
MORULA 18	A 6407	03	KAU	3	19 11	155 30	600					PARKER RCH-KAPAPALA DIV
MOUNTAIN VIEW 91	6552	02	PUNA	2	19 33	155 07	1530	6A	6A			PUNA SUGAR CO
NAALEHU 14	A 6588	03	KAU	3	19 04	155 35	800	8A	8A			KAU SUGAR COMPANY
NAPOOPOO 28	A 6697	04	S KONA	4	19 28	155 55	395		7A			KONA EXPERIMENT STA
OOKALA 223	7131	02	N HILO	2	20 01	155 17	430	7A	7A			LAUPAHOEHOE SUGAR CO
OPIHIHALE 2 24.1	7166	04	S KONA	4	19 16	155 53	1270	7A	7A			MRS LORNA TRUMAN
ORCHIO LANO EST 91.5	A 7185	02	PUNA	2	19 34	155 00	445		VAR			BOARD OF WATER SUPPLY

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								TEMP.	PRECIP.	EVAP.	SPECIAL (SEE NOTES)		
ISLAND OF HAWAII													
PAAUHAU 217	7204	01	HAMAKUA	1	20 05	155 26	415		8A		C	HONOKAA SUGAR COMPANY LAUPAHOEHOE SUGAR CO KAU SUGAR COMPANY, INC PUAN SUGAR COMPANY PARKER RCH-KAPAPALA DIV MAUNA KEA SUGAR CO MAUNA KEA SUGAR CO STATE DIV OF FORESTRY STATE DIVISION OF PARKS SUPT PUU HEIAU-NHS	
PAAUILO 221	7312	01	HAMAKUA	1	20 03	155 22	800		7A				
PAHALA 21	A 7421	03	KAU	3	19 12	155 29	870	8A	6A				
PAHOA 65	7457	02	PUNA	2	19 30	154 57	670		6A				
PAKAO 37	A 7643	03	KAU	3	19 22	155 28	5000		MO				
PAPAIOU 144.1	7711	02	S HILO	2	19 47	155 06	260		7A				
PAPAIOU MAUKA 140.1	7721	02	S HILO	2	19 47	155 08	1270		7A				
PIIHONUA 89	A 8051	02	S HILO	2	19 44	155 10	1730		MO				
POHAKULOA 107	A 8063	02	HAMAKUA	2	19 45	155 32	6511		WI		C		
PUUKOHOLA HEIAU 98.1	8422	05	HAWAII	5	20 02	155 50	140	8A	8A				
PUU LEHUA 73	A 8460	04	N KONA	4	19 34	155 49	4880		MO			W.H. GREENWELL RANCH PUU WAAWAA RANCH CO BOARD OF WTR SUPPLY MRS CAROLYN CARLSON PARKER RCH-KAPAPALA DIV U S COAST GUARD SHINICHI KANESHIRO BOISE CASCADES WA CONST	
PUU WAAWAA 94.1	A 8555	05	N KONA	5	19 47	155 51	2520		7A		C		
SAOOLE ROAD 1 84	A 8590	02	S HILO	2	19 42	155 12	2340		WM				
SOUTH KONA 2.31	8650	03	HAWAII	3	19 06	155 45	2650	8A	8A				
SOUTH POINT CORRAL 3	A 8675	03	KAU	3	18 57	155 41	500		WI				
UPOLU POINT USCG 159.2	8830	01	N KOHALA	1	20 15	155 53	61	8A	2P				
WAIKAE 50 88.2	9025	02	S HILO	2	19 40	155 08	1050		7A				
WAIKALOA-BOIS CAS 95.8	9142	04	HAWAII	5	19 56	155 48	900		8A				
CLOSED STATIONS													
ISLAND OF OAHU													
KALAMA VALLEY 724-13	2842	02	OAHU	2	21 18	157 41	75				C	CLOSED 8/31/77 CLOSED 8/31/77 CLOSED 8/31/77	
MOMILANI 835.1	6547	03	OAHU	3	21 25	157 58	325				C		
SEA LIFE PARK 724.14	8665	01	OAHU	1	21 19	157 40	40				C		
ISLAND OF HAWAII													
KEALAKEKUA 2 28.7	3980	04	S KONA	4	19 30	155 55	1450	8A	8A			CLOSED 8/31/77	
NEW STATIONS													
ISLAND OF OAHU													
HAWAII KAI CRSE 724.19	1308	02	OAHU	2	21 18	157 39	21				C	HAWAII KAI GOLF COURSE PEARL COUNTRY CLB OF HA	
PEARL COUNTRY CL 760.2	7942	03	OAHU	3	21 23	157 56	120				C		

SEE REFERENCE NOTES FOLLOWING STATION INDEX

## STATION INDEX

HAWAII AND PACIFIC  
SEPTEMBER 1977

STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE :	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES				OBSERVER
								TEMP.	PRECIP.	EVAP.	SPECIAL (SEE NOTES)	
PACIFIC												
EAST OF 180TH MERIDIAN												
CANTON ISLAND	4101	02	PHOENIX IS		2 46N	171 43W	8	9A	9A			ITT/FEDERAL ELEC CORP
FAGA ALU RESERVOIR	4135	03	AMER SAMOA		14 18S	170 42W	820		8A			PUBLIC WORKS
FALEASAO VILLAGE	4248	03	TA'U'MAN		14 14S	169 31W	16		8A			SOLOMULI MALU'IA
JOHNSTON IS WSO AP	R 4320	01	LINE ISLANDS		16 44N	169 31W	10	MIO	MIO	SP	J	NATL WEATHER SERVICE
LEONE	4397	03	TUTUILA		14 21S	170 47W	20	6P	6P			ST THERESA SCHOOL
FRENCH FRIGATE SHOALS	4401	07			23 52N	166 17W	6	8P	8A			U S COAST GUARD
MIDWAY SAND ISLAND	4490	07			28 13N	177 21W	10	MIO	MIO			U S NAVY
PAGO PAGO WSO AP	R 4690	03	AMER SAMOA		14 20S	170 43W	12	MIO	MIO		J	NATL WEATHER SERVICE
WESTERN PACIFIC ISL. NORTH OF 12 N												
ANDERSEN AFB GUAM	\$3 4025	03	MARIANNA IS		13 35N	144 55E	624	MIO	MIO			AIR WEATHER SERVICE
CLARK AFB LUZON	\$3 4100	06	PHILIPPINE I		15 11N	120 33E	475	MIO	MIO			U S AIR FORCE
GUAM NAS	4226	03	MARIANNA IS		13 29N	144 48E	254	MIO	MIO			U S NAVY
GUAM WSMO	R 4229	03	MARIANNA IS		13 33N	144 50E	361	10A	10A	6P	J	NATL WEATHER SERVICE
MANGILAO	4468	03	GUAM		13 27N	144 49E	60		7A			GUAM AGRICULTURAL STA
ROTA	4800	03	MARIANNA IS		14 08N	145 09E	47		8A			DIST ADMINISTRATOR
SAIPAN LORAN	4860	03	MARIANNA IS		15 08N	145 42E	9	10A	10A			U S C G LORAN STATION
WAKE WSO AP	R 4901	01			19 17N	166 39E	12	MIO	MIO		J	NATL WEATHER SERVICE
CAROLINE AND MARSHALL ISLANDS												
ANGUAR	4030	02	CAROLINE IS		6 55N	134 09E	15		8A			USCG LORAN STATION
ENIWETAK	4165	01	MARSHALL IS.		11 21N	162 21E	10	MIO	MIO			U S COAST GUARD
FALALOP I. ULITHI	4185	02	CAROLINE IS		10 02N	139 48E	6	9A	9A			PRINCIPAL-ULITHI H-SCH
KAPINGAMARANGI ATOLL	4325	01	PONAPE		1 05N	154 48E	10	MIO	MIO			ERSIN HAQUET
KOROR WSO	R 4351	02	CAROLINE IS		7 20N	134 29E	94	MIO	MIO		J	NATL WEATHER SERVICE
KWAJALEIN MISSILE RGN	R 4375	01	MARSHALL IS		8 44N	167 44E	7	12M	12M		J	KMR WEATHER SERVICE
LELE I. KUSAIE	4395	02	CAROLINE IS		5 20N	163 02E	7	MIO	MIO			JULIAN E ROBERT
MAJURO WSO AP	R 4460	02	MARSHALL IS		7 05N	171 23E	10	MIO	MIO		J	NATL WEATHER SERVICE
METALANIM	4482	02	PONAPE		6 51N	158 19E	30	6P	6P			REV E. A. SOUCIE
MOKIL ATOLL	4490	02	PONAPE DIST.		6 41N	159 47E	27		SP			ESHAM BEN
NGASANG. BABELTHUAP	4580	01	PALAU ISLAND		7 38N	134 39E	10		8A			BETHANIA SEMINARY
PONAPE WSO	R 4751	02	CAROLINE IS		6 58N	158 13E	123	MIO	MIO		J	NATL WEATHER SERVICE
SATAWAN ATOLL	4814	02	CAROLINE IS		5 20N	153 44E	9	MIO	MIO			ANTER EKO
TRUK. MOEN I. WSO AP	R 4851	02	CAROLINE IS		7 28N	151 51E	5	MIO	MIO		J	NATL WEATHER SERVICE
WOLEAI ATOLL	4911	01	CAROLINE IS		7 23N	143 55E	7	MIO	MIO			HASUGULIMAR/HALEYEMAI
YAP WSO AP	R 4951	02	CAROLINE IS		9 29N	138 05E	44	MIO	MIO		J	NATL WEATHER SERVICE

SEE REFERENCE NOTES FOLLOWING STATION INDEX

Climate of Hawaii and the Pacific Ocean Area may be obtained by writing to the National Climatic Center, Federal Building, Asheville, N.C. 28801. Send for any National Weather Service Office near you. Additional precipitation data for Hawaii are contained in "HOURLY PRECIPITATION DATA HAWAII".

UNITS: In all tables, unless otherwise indicated, dimensional units used in this bulletin are: Temperature in °F., precipitation and evaporation in inches, and wind movement in miles. In "Supplemental Data" table directions entered in figures are tens of degrees. Resultant wind is the vector sum of wind direction and speed divided by the number of observations.

PRECIPITATION TIME: In the "Monthly Extremes," "Daily Precipitation" table, "Daily Temperature" table, and "Evaporation and Wind" table are for the 24 hours ending at the time of observation unless indicated otherwise by reference letters in the Station Index. The Station Index shows observation time for each table.

EVAPORATION: In the standard Weather Service-type pan of 4-foot diameter unless otherwise noted below in the Evaporation and Wind table. The values in the Evaporation and Wind table are extremes of temperature of water in pan as recorded during 24 hours ending at time of observation. Wind is the total wind movement in miles over the evaporation pan as determined by a continuous anemometer recorder located 6-8 feet above the pan.

NOTES: For all divisions are climatological standard normals based on the period 1941-1970.

STATION NAMES: Hawaii State key numbers are included following station names in the several tables.

DATE REPORTS AND CORRECTIONS will be carried only in the June and December issues of this bulletin.

INTERPOLATED VALUES for monthly precipitation totals may be found in the annual issue of this publication.

IN THE DATA TABLES THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING:

- No record in the "Supplemental Data" table, "Daily Precipitation" table, "Evaporation and Wind" table, and the Station Index.
- No record in the "Monthly Summarized Data" table and the "Daily Temperature" table is indicated by no entry.
- And also on an earlier date or dates.
- Highest observed one minute windspeed. This station is not equipped with an instrument to measure fastest mile data.
- Amount included in following measurement, time distribution unknown.
- Extreme occurred at station with incomplete data which may have been exceeded
- The letter "A" shown following station name in "Monthly Summarized Data" table, "Daily Precipitation" table, and "Station Index," indicates amount carried in the "Total" column is for the period from last measurement of a preceding month through the last measurement of the current month. See "Daily Precipitation" table of this and previous bulletins for dates of measurement. Where gages are read only once monthly, measurements made on the first of a month are credited to the last day of the preceding month.
- Adjusted to a full month.
- One or more days of record missing; if average value is entered, less than 10 days record is missing. See "Daily Temperature" table for detailed daily record.
- Amounts from recording gage.
- T Trace, an amount too small to measure.
- V Includes total for previous month.

IN THE STATION INDEX THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING:

- AR Observation made after rain.
- C In Special Column of Station Index indicates Recording Rain Gage Station. Hourly Precipitation values are processed for special purposes, and are published later in the "Hourly Precipitation Data" bulletin. If daily amounts are published in "Monthly Summarized Data" bulletin they are from a separate non-recording gage, except where indicated by reference 'R'. Such amounts may differ from amounts published from the recording gage in the "Hourly Precipitation Data" bulletin.
- I "Supplemental Data" table.
- MO Gage read once monthly; usually on the last day.
- OC Gage readings at periods varying from a few weeks to several months.
- S Storage precipitation station. Precipitation measurements, made at irregular intervals, are published in the annual issue of this publication, beginning with the 1977 data. Prior data are found in the "Storage-Gage Precipitation Data" Bulletin, which was discontinued with the 1976 issue.
- SS Observation time is near sunset.
- VAR Observation time is variable.
- WI Gage read weekly or irregularly only.
- WM Gage read weekly and last day of month.
- # Thermometers are generally exposed in a shelter located a few feet above sod-covered ground; however, this reference indicates that the thermometers are exposed in a shelter located on the roof of a building.
- 1: Maximum and minimum temperatures are the highest and lowest hourly readings for each day.
- 4 DRAINAGE CODE: KAUAI: 1-NORTHERN 2-SOUTHEASTERN 3-SOUTHWESTERN OAHU: 1-WINDWARD KOOLAU 2-HONOLULU 3-SOUTH CENTRAL 4-WESTERN 5-NORTH CENTRAL MOLOKAI: 1-(NO INTRA-ISLAND DIVISIONS) LANAI: 1-(NO INTRA-ISLAND DIVISIONS) MAUI: 1-NORTHEASTERN 2-SOUTHERN 3-CENTRAL 4-WESTERN HAWAII: 1-NORTHERN 2-EASTERN 3-SOUTHERN 4-WESTERN 5-CENTRAL

Stations appearing in the tables with no data were either missing or received too late to be included in this issue.

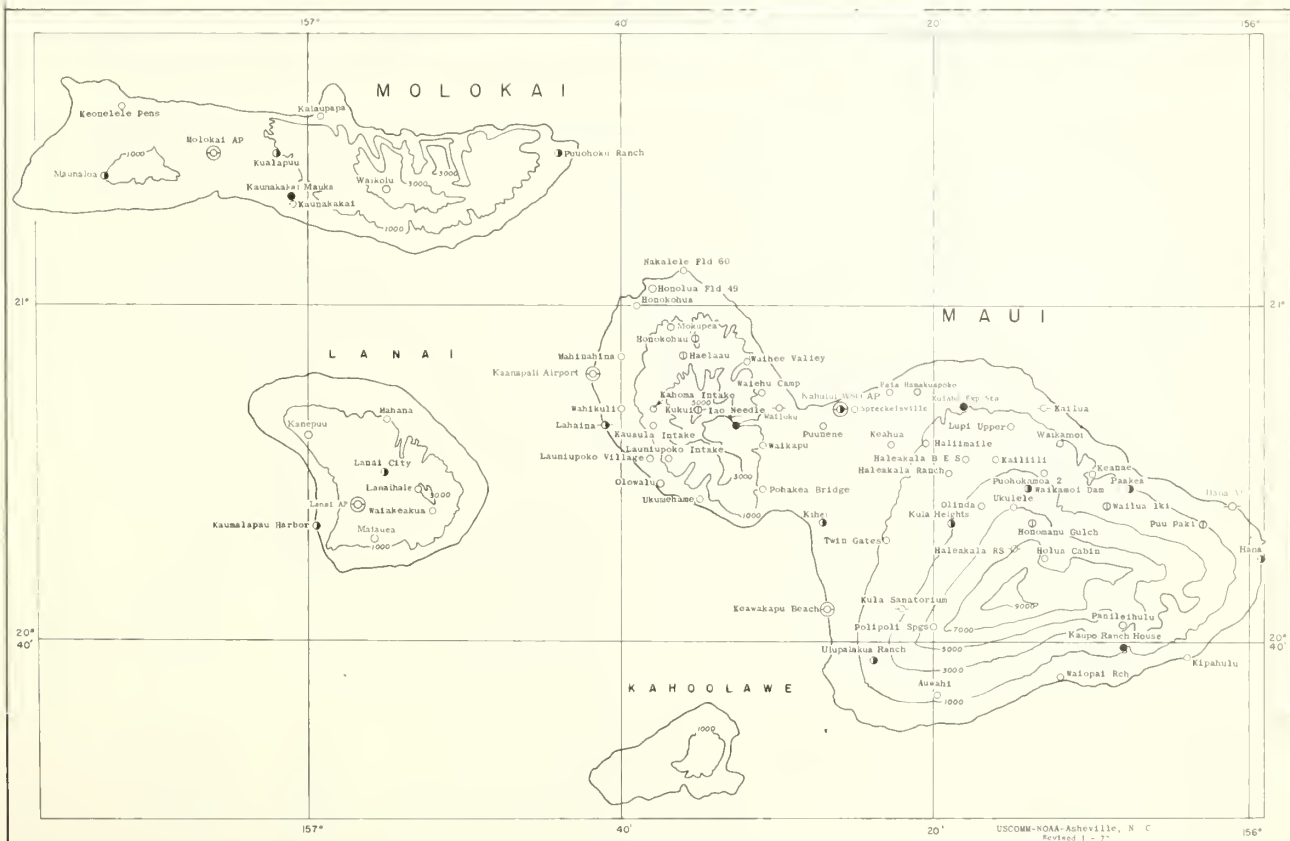
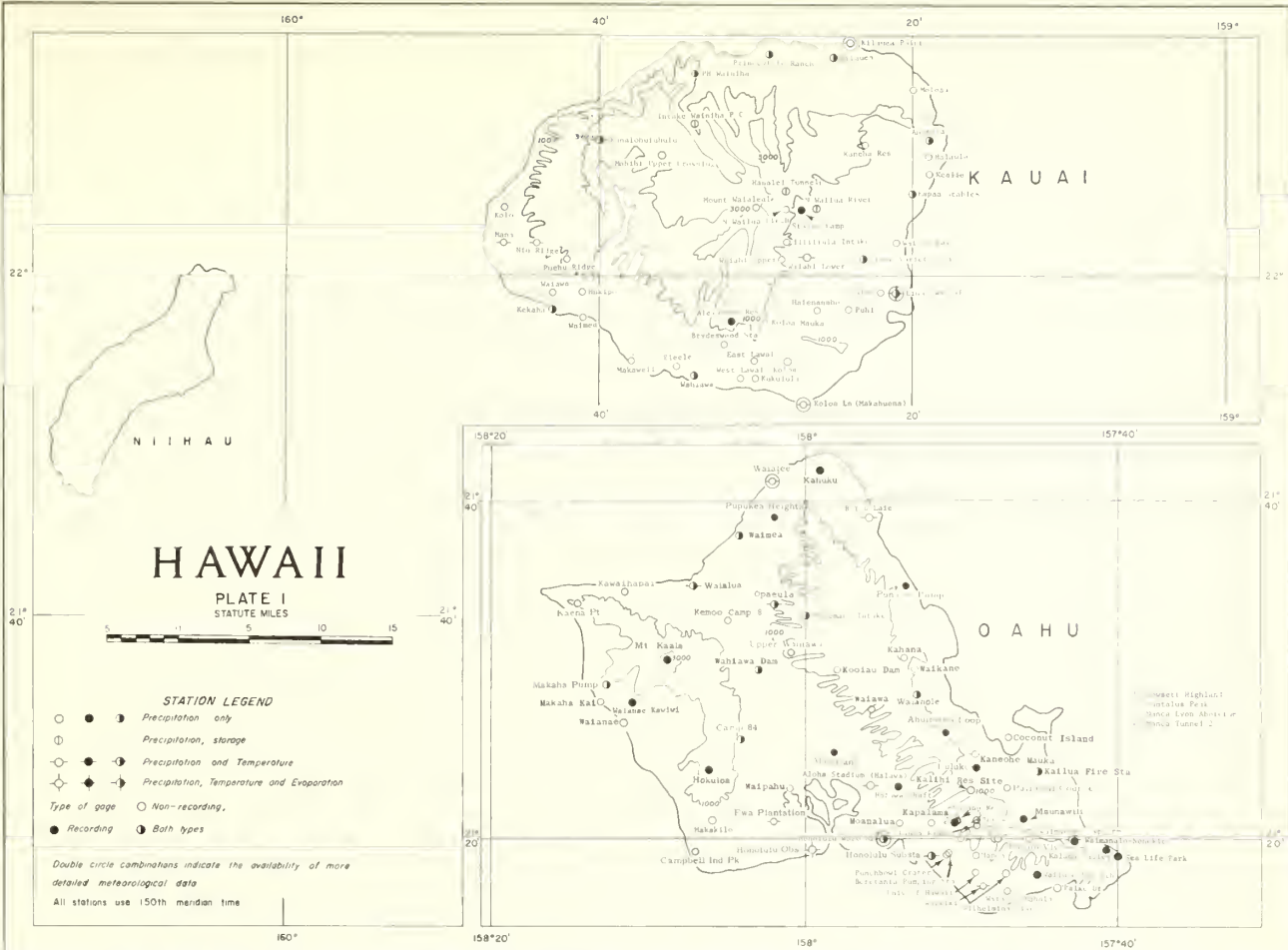
The Pacific includes stations in the Trust Territory of the Pacific Islands, Territory of Guam, American Samoa, and other scattered islands and atolls.

General weather conditions in the U.S. for each month are described in the CLIMATOLOGICAL DATA NATIONAL SUMMARY and STORM DATA.

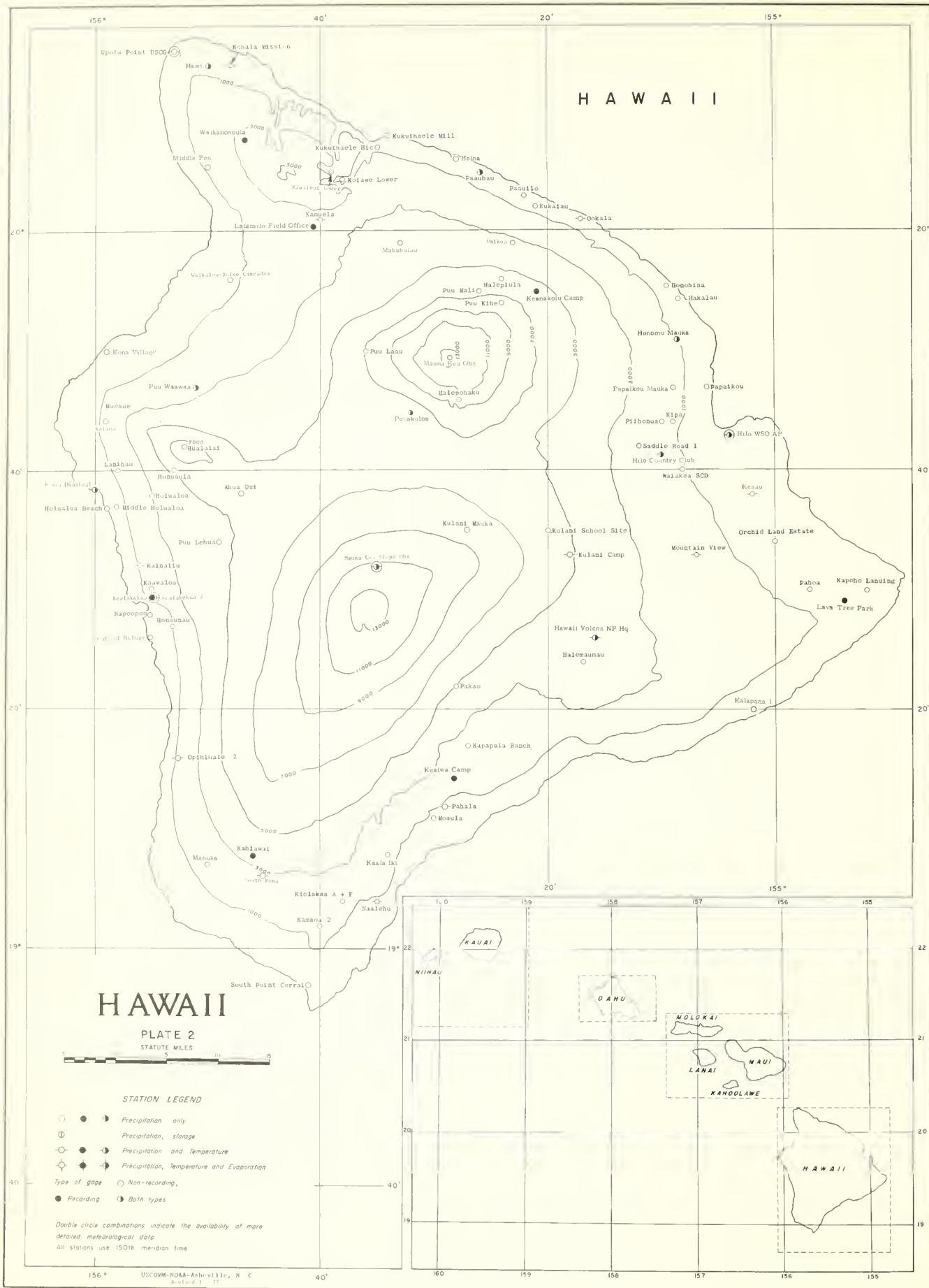
Information concerning the history of changes in locations, elevations, exposure, etc., of substations through 1957 may be found in the publication "Substation History" for this State, price 40 cents. Similar information for regular National Weather Service Offices may be found in the latest annual issue of Local Climatological Data, price 20 cents. These publications may be obtained from the National Climatic Center at the address shown above.

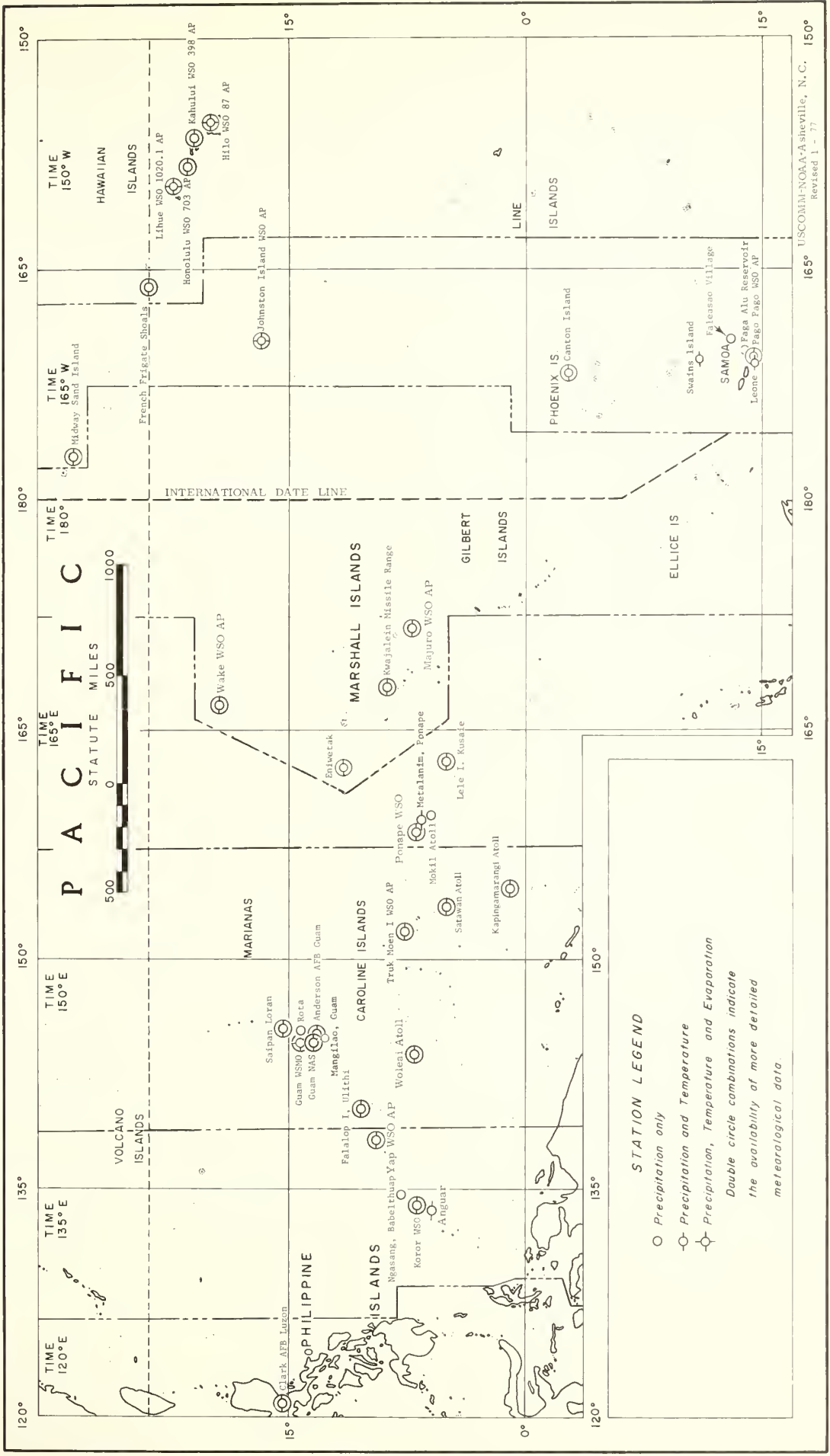
Subscription Price: \$5.10 a year for each section including annual summary, \$5.55 additional for foreign mailing; 40¢ single copy; 30¢ annual summary. Make checks payable to Department of Commerce, NOAA; send payments and orders to: National Climatic Center, Federal Building, Asheville, N.C. 28801. Attn: Publications.

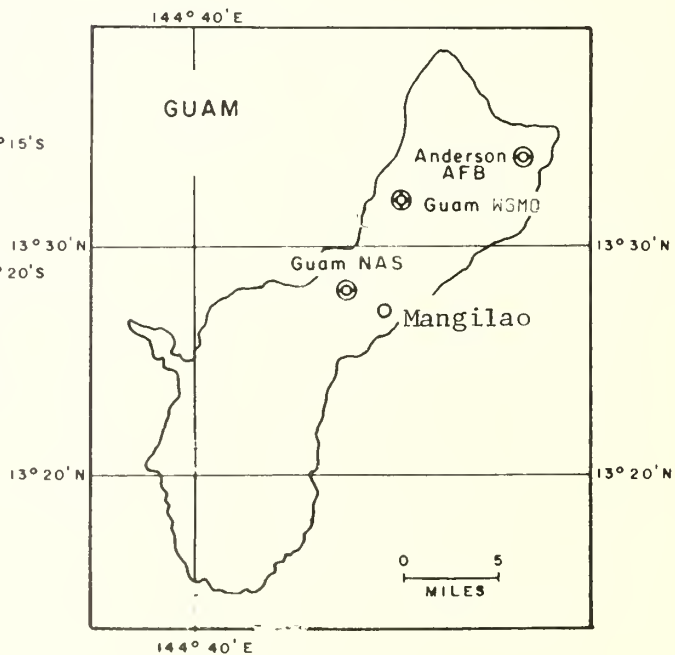
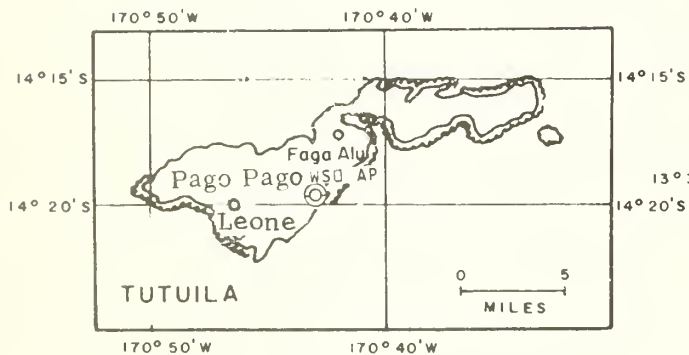
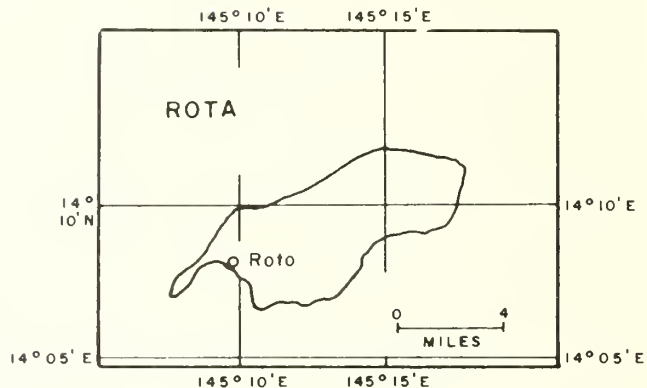
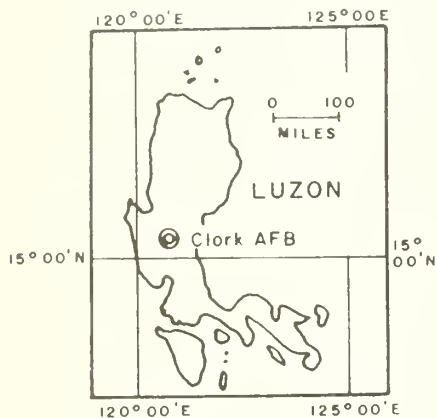
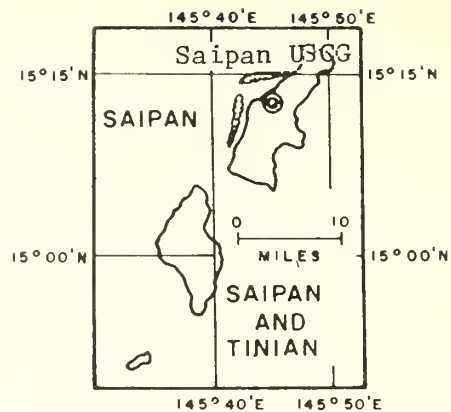
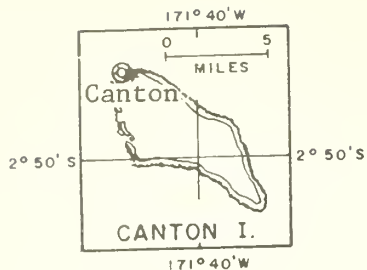




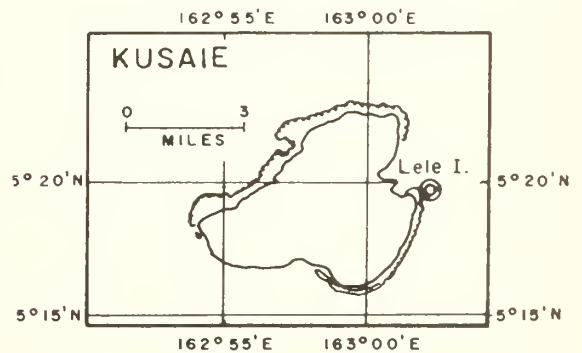
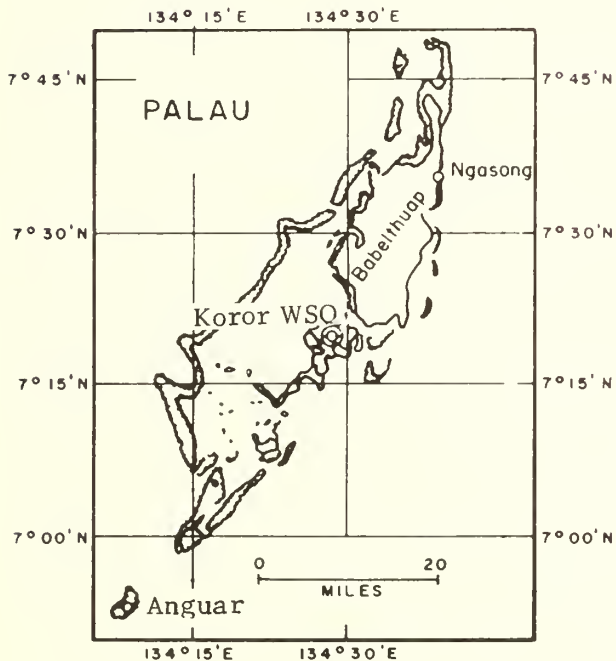
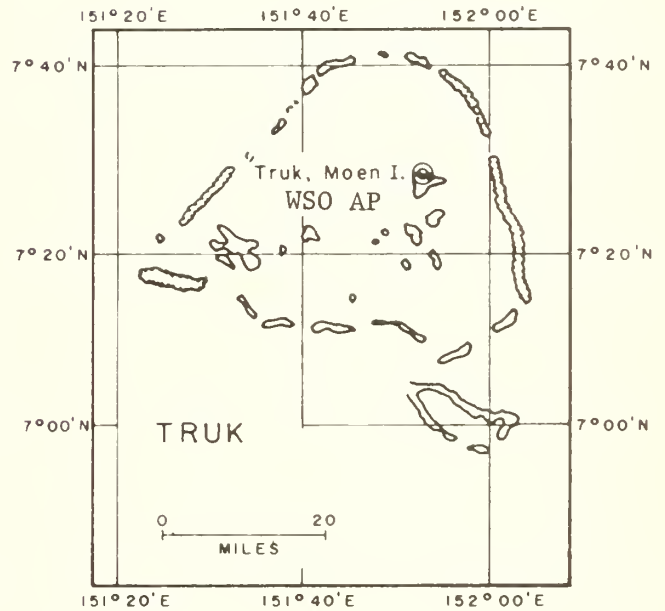
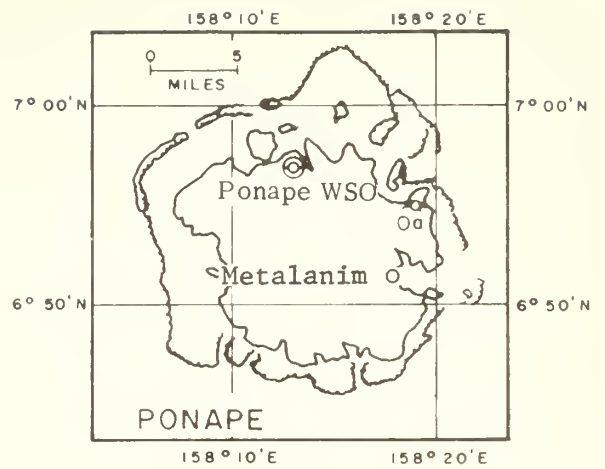
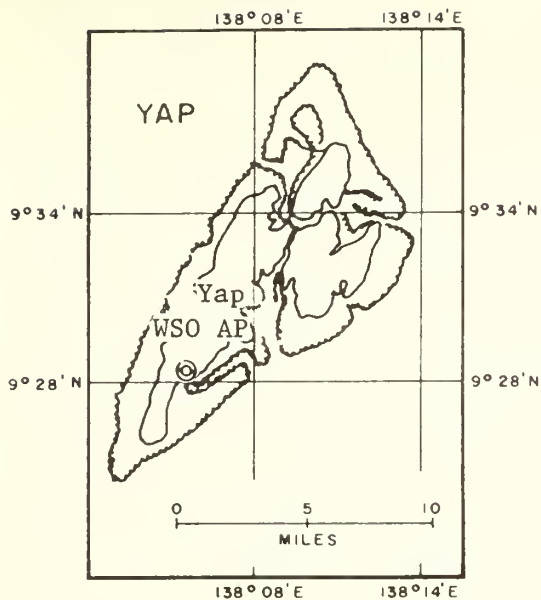




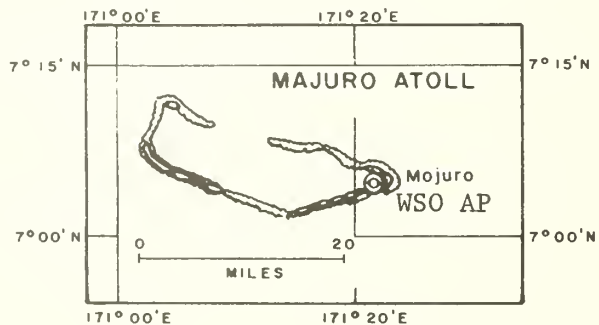
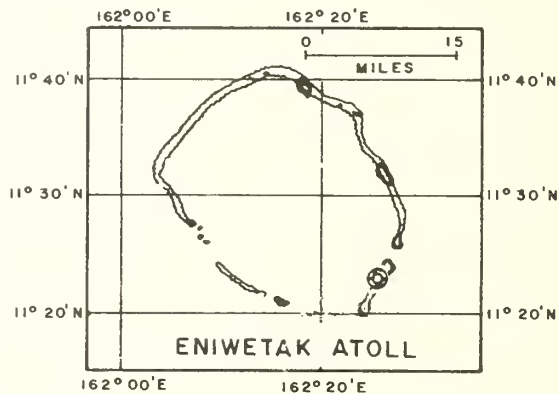
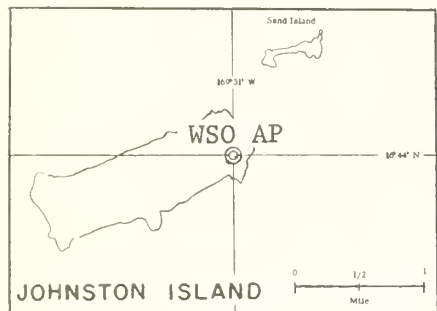
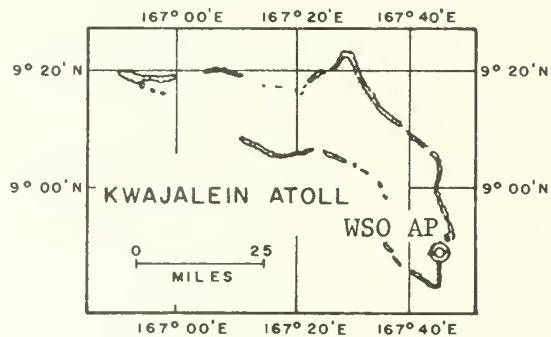
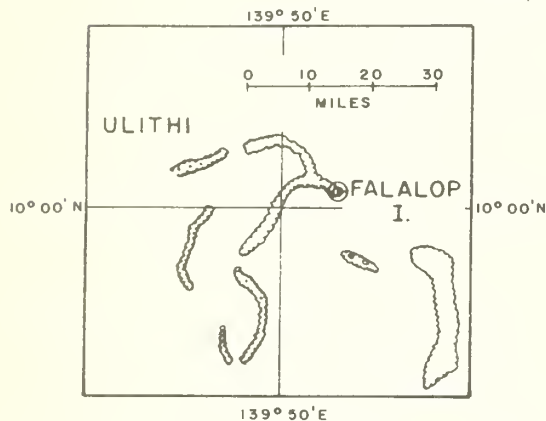
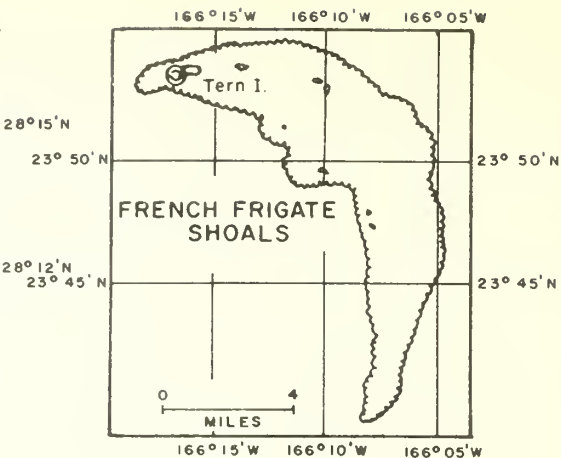
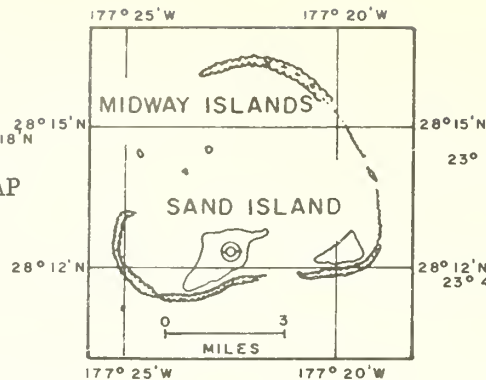
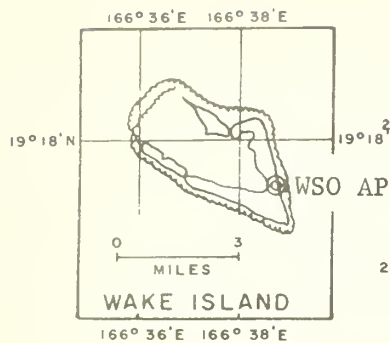




Reef



— Reef







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**THIRD CLASS**



# Climatological Data

## HAWAII AND PACIFIC

### TEMPERATURE AND PRECIPITATION EXTREMES

HAWAIIAN STATIONS ONLY

HIGHEST TEMPERATURE: 2 STATIONS 93 DATE 16+  
 LOWEST TEMPERATURE: MAUNA LOA SLOPE OBS HAWAII 31 DATE 21  
 GREATEST TOTAL PRECIPITATION: PIIHONUA 89 HAWAII 26.20  
 LEAST TOTAL PRECIPITATION: 3 STATIONS .00  
 GREATEST 1 DAY PRECIPITATION: PAHOA 65 HAWAII 7.18 DATE 17

### SUPPLEMENTAL DATA

	WIND (SPEED - M.P.H.)						RELATIVE HUMIDITY AVERAGES- PERCENT				NUMBER OF DAYS WITH PRECIPITATION								PERCENT OF POSSIBLE SUNSHINE	AVERAGE (TENTHS) SKY COVER	SUNRISE TO SUNSET
	RESULTANT DIRECTION	RESULTANT SPEED	AVERAGE	FASTEST MILE	DIRECTION OF FASTEST MILE	DATE OF FASTEST MILE	STANDARD OF TIME				TRACE	.01-.09	.10-.49	.50-.99	1.00-1.99	2.00 AND OVER	TOTAL				
							GREENWICH CIVIL														
							12	18	00	06											
GUAM WSMO	-	-	-	29	SW	22	-	80	81	93	1	4	10	4	4	1	24	36	8.0		
HILO WSO 87 AP	20	0.9	5.9	17	E	03	88	79	72	84	3	5	16	4	1	1	30	34	7.7		
HONOLULU WSO 703 AP	6	10.0	12.1	28	E	19	72	68	52	68	6	3	1	0	0	0	10	75	5.8		
JOHNSTON WSO AP	9	16.0	16.9	35	E	31	81	80	74	80	8	11	6	1	0	0	26	77	5.9		
KAHULUI WSO 398 AP	5	9.6	10.8	28	E	29+	69	69	57	63	6	6	1	0	0	0	13	67	5.5		
KOROR WSO	27	5.3	7.2	22	N	15	87	-	80	76	0	10	9	3	3	1	26	56	8.8		
KWAJALEIN MISSILE RGN	10	4.0	8.7	24++	8	14	81	83	75	78	1	9	7	6	3	1	27	-	8.9		
LIHUE WSO 1020.1 AP	6	10.5	12.4	31	NE	25	75	73	62	73	5	9	6	0	0	0	20	64	6.5		
MAJURO WSO AP	8	4.1	7.0	26	W	20	82	83	76	79	0	4	11	6	3	2	26	52	8.6		
PAGO PAGO WSO AP	12	10.6	12.7	27	S	17+	85	83	75	82	3	8	4	1	4	1	21	-	8.1		
PONAPE WSO	-	-	-	20	NW	21	95	-	77	78	2	4	11	5	3	2	27	37	9.0		
TRUK MOEN I. WSO AP	25	6.6	10.4	33	W	27	85	-	79	79	2	8	6	6	2	3	27	9	9.9		
WAKE ISLAND WSO AP	8	14.7	16.3	33	SE	27	82	82	72	76	4	7	11	3	4	0	29	56	7.5		
YAP WSO AP	28	3.7	6.2	23	W	20	88	-	78	75	1	7	9	3	1	0	21	27	8.6		

I CERTIFY THAT THIS IS AN OFFICIAL PUBLICATION OF THE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION AND IS COMPILED FROM RECORDS ON FILE AT THE NATIONAL CLIMATIC CENTER, ASHEVILLE, NORTH CAROLINA 28801.

*Daniel B. Mitchell*

DIRECTOR  
NATIONAL CLIMATIC CENTER

**noaa**

NATIONAL OCEANIC AND  
ATMOSPHERIC ADMINISTRATION / ENVIRONMENTAL / NATIONAL CLIMATIC CENTER  
DATA SERVICE / ASHEVILLE, N.C.

## MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

HAWAII AND PACIFIC  
OCTOBER 1977

STATION		TEMPERATURE										PRECIPITATION																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
		AVERAGE MAXIMUM	AVERAGE MINIMUM	AVERAGE	DEPARTURE FROM NORMAL	HIGHEST	DATE	LOWEST	DATE	DEGREE DAYS	NO. OF DAYS				TOTAL	DEPARTURE FROM NORMAL	GREATEST DAY	DATE	SNOW		SLEET		NO. OF DAYS																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
											MAX.	MIN.	32° OR BELOW	32° OR BELOW					32° OR BELOW	32° OR BELOW	TOTAL	DEPARTURE FROM NORMAL	GREATEST DAY	DATE	TOTAL	MAX. DEPTH ON GROUND	DATE	-10 OR MORE	-30 OR MORE	-100 OR MORE																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
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SEE REFERENCE NOTES FOLLOWING STATION INDEX

# MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

HAWAII AND PACIFIC  
OCTOBER 1977

STATION		TEMPERATURE											PRECIPITATION																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
		AVERAGE MAXIMUM	AVERAGE MINIMUM	AVERAGE	DEPARTURE FROM NORMAL	HIGHEST	DATE	LOWEST	DATE	DEGREE DAYS	NO. OF DAYS				TOTAL	DEPARTURE FROM NORMAL	GREATEST DAY	DATE	SNOW, SLEET			NO. OF DAYS																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
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SEE REFERENCE NOTES FOLLOWING STATION INDEX



## MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

HAWAII AND PACIFIC  
OCTOBER 1977

STATION		TEMPERATURE										PRECIPITATION																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
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SEE REFERENCE NOTES FOLLOWING STATION INDEX

# DAILY PRECIPITATION

HAWAII AND PACIFIC  
OCTOBER 1977

STATION	TOTAL	DAY OF MONTH																																
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
HAWAII																																		
ISLAND OF KAUAI																																		
ANAHOLA 1114	A	1.45					.15		.03	x	x		.03		.15	.30	x		.07	.05							.07	.05	.35		.10	x	.05	
BAVOES4000 STA 985	A	2.32	x	x	.01	.01	.02	.15	.03	x	x	.08	.15			x		.04	.10		.04	.03	.08				.25	.23	.60		.25	x	.05	
EAST LAWA 934	A	3.15							.19	x	x	.10	.17			x		.11	.30		.05	.04	.20	x	x	.04	.65	.14	.65		.14	x	.10	
ELEEE 927	A	.64			.02	T	.11						.08					T	T		.01	.04	.04				.03	.03	.06	.19		.04	x	.02
HALAULA 1110	A	2.32				.10	.10			x	x	.05		.30	.30	x		.10	.20			.15	x	x	.03	.40	.07	.30	.22					
HALEMANAHO 1006	A	3.56					.03	.34	.05	x	x	.11		.43	x	x		.32	.16		.13	.04	.17	x	x	.05	.39	.29	.56	.24	x	.25		
HANALEI TUNNEL 1053	A	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
HUKIP0 945	A	.40										.40																						
ILILUUA INTAKE 1050	A	11.30	x	x	.15	.20	.23	.40	.20	x	x	.69	.93	.06	.20	1.32	x	x	.79	1.00		.18	.37	.13	x	x	.14	.84	.69	1.25	1.18	x	.25	
INTAKE WAINIHA PC 1086	A	10.47	.27	x	.03	x	x	.18				.01			T	x	x	.10	.20			.72	x	.30	x	.08	x	6.30	x	2.44	x	.04		
KANALOMULULU 1075	A	1.33						.02	.07	.12		.02						.08		.02			.10	.01			.32	.40	.05	.10	.02			
KANEHA RESERVOIR 1092	A	5.70	x	x	.20	.20	.20	.18	x	x	.13			.50	1.35	x	x	.20	.30		.07	.05	.15	x	x	.15	.85	.35	.40	.35	x	.07		
KAPPA STABLES 1104	A	2.10					.02	x	x	x	.06			.05	.30	x	x	.40	.06			.03	.05				.19	.05	.30	.47				
KEKOA 944	A	2.07				.10	.15		.05	x	x	.08		.15	.25	x	x	.07	.15		.02	.03	.10				.15	.07	.35	.35				
KILAUEA 1134	A	2.77		.04			.02	.12			.06	.05		.01	.01		.12	.04	.65	.25		.30	.08		.04		.32	.31	.20	.26	.03		.11	
KILAUEA POINT 1133	A	1.40			.02	.03	.20	.12			.02			.01			.09		.01			.30	.17		.20	.40	.06	.08						
KOLA 1033	A	.13																																
KOLA 936	A	2.85	x	x	.05				.20	x	x	.05					x	.10	.21		.03	.07	.05				.92	.17	.48	.11	x	.13		
KOLA LN (MAK) 940.1	A	1.14			.01	.03	.03		.01									.02				.05				.11	.21	x	.50					
KOLA MUKA 994	A	2.69	x	x	x	.15	.06	x	x	x	x	.56	.02	x	x	x	x	x	.66	.10	x	x	.08	.01	x	x	x	.93	.21	x	x	x	x	
KUKULUA 935	A	1.40	x	x	.11			.05	.04	x	x	.01					x	.02	.06	T	.20	.10					.60	.09	.12	.17	x	.02		
LILUUA VARIETY ST 10621	A	3.69	x	x	.67			.03			.13			.34	x	x	.36	.30									.25	.30	.25	.39				
LIHUE 1020	A	2.28				.06		.05						.92	x	.28	.13		.02	.05	.07	x	x	.03		.21	.21	.07	.12	x	.06			
LIHUE W50 1020.1 AP	✓/R	1.28			T	.04	.13					T		.30	.01		.14	.03	.04	T	.10		.01	T	.06	.21	.11	.01	.07	T		.02		
HAWAII I 965																																		
MANA 1026	A	.15																									.15							
MOHAI UPPER CROSS 1083	A	2.00	x	x	x	x	.03	x	x	x	x	.23	x	x	x	x	x	1.01									x	.4	x	x	x	x	.73	
MOUNT WAIKALELE 1047	R	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
NIU HOGE 1035																																		
N WAILUA DITCH 1051	A	10.19	x	x	.18	.22	.27	.81	.24	x	x	.66	1.01	.24	.04	.98	x	1.05	.12		.13	.19	.13	x	x	.13	1.28	.50	1.09	.70	x	.21		
N WAILUA RIVER 1055	A	—	—	—		.27	.81																											
PA WAINIHA 1115	A	4.86				.04	.15	.03					.23				.20	T	.13	.37							1.33	.75	.59	.54	x	.21		
PRINCEVILLE RANCH 1117	A	3.60			.07	.02	.19	.03	x	x	.01		.23				x	.78	.11		.04	.23	.32	x	x	.03	.51	.34	.44	.26	x	.21		
PUEHU RIDGE 1040																																		
PUNH 1013	A	1.27	x	x	.12			.06	.18					.06				.10				.06					.27	.22	.23	x	x	.05		
WAIKAWA 930	A	1.09			.01	T	.14	.01			T	.14		.06	x	.01	.02					.06					.16	.13	.15	.16	x	.05		
WAIKAWA LOWER 1054	A	8.25		.01	.08	.09	.05	.40	.03	.22	.04	.02	.11	.04	.03	1.84	.44	.32	.29	.89	.12	.21	.34	.03	.02	.05	.56	.43	.71	.67	.09	.01	.01	
WAIKAWA UPPER 1052	A	9.91		.12	.25	.28	.73	.10	.10	.04	.02	.70	.08	.05	1.56	.05	.10	.45	.09	.20	.30	.28	.01	.02	.02	.75	.55	.90	1.25	.05	.03	.02		
WAILUA 943																																		
WAILUA KAI 1065	A	1.85					.15		x	x	.06			.10	x		.45	.16		.02	.03	.10	x	x	.02	.20	.06	.30	.13	x	.07			
WAIKAWA 947	A	.17										.17																						
WEST LAWA 931	A	1.74	x	x	.02	T	T	.07	.04	x	x	.05	.02			x	x	.07	.03		.02	.04	.14	x	x	.04	.60	.15	.25	.07	x	.13		
ISLAND OF OAHU																																		
ALPHA STADIUM-HALAUA	A	.30			.06		.04																				.05	.10		.04				
BERETANIA PUMPING STA	A	.89	.02				.04	.01									x	.01		.01	.01	.02		x	x	.05	.30	.13	x	.29				
O Y U LAIE 903.1	A	2.62					.05										x	.07	T		.04	.05		x	x	.03	2.15	.08	.06	x	.08			
CAMPBELL 2ND PK 702.5	A	.34	.06	T																							.15	.13						
CAMP 84 807	A	.11																									.05	.04	x	.02	x	x		
COCONUT ISLAND 840.1	A	.92	x	x	.09	.03	.03	.05						x	.01	x	x	.11	.01				.01	x	.10	x	x	x	.45	.03				
CUWA PLANTATION 741	A	.17					.01																				.02	.14						
HELEMANO INTAKE 881	A	2.24	x	x	.03	x	x	.20	x	x	x	.04	x	x	x	x	x	.08	x	x	.13	x	x	x	x	x	x	x	1.20	x	x	.55		
HONOLULU OBSERV 702.2	A	.14																									.03	.08		.03				
HONOLULU W50 703 AP	R	.15			.01			T																			.11	T	.02					
KAEHA POINT 841.3	A	1.77				x	x	x	x	x	x	.02				x	x	.07		x	x	x	x	x	x	x	x	1.40	.25	x	x	.03		
KAHANA 883	A	4.96	x	x	.41	x	x	x	x	x	1.19	x	x	x	x	x	.69	x	x	x	x	x	x	x	1.03	x	x	x	x	x	x	1.64		
KAILUA FIRE STA 791.3	A	1.95	.01								.13			.01	.03	.01	.05	.02	.01	.01		.02	.01		.10	.15	.20	.10	.24	.20	.18	.50		
KALIHU RES SITE 777	A	2.84				.04	.18	.22	.02	.04	.02			.02	.04	.24	.18	.06	.02		.02	.02	.10	.08	.02	.10	.08	.70	.10	.28	.32		.10	
KANEHE MAUKA 781	A	1.97		.02				.21						.01			.16	.12	.06		.01	.05	.01	.11	.31	.71	.04	.13				.02		
KAPALANA 773	A	1.68			.20			.14						x	.02						.03						.30	.83	.45	.52	x	.02		
KAWAIAWAPA 841	A	1.46					.02																				.48	.83						
K																																		

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# DAILY PRECIPITATION

HAWAII AND PACIFIC  
OCTOBER 1977

STATION	TOTAL	DAY OF MONTH																															
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
HAWAII																																	
KONA (KAILUA) 68.3	A	3.35												1.58	.51				1.25		T											.01	
KONA VILLAGE 93.8		.01												.01					.01														
KUKAIUA 222		6.93			.05	.21	.05	.12	.08		.01							.02	1.63	.16	.01	.07	1.55	.37		.36	.11	1.25	.26	.50	.12		
KUKUIHALE HIC 109		5.55			.05	.02			.02		.32							1.83	.03	.04	.20	.02	.88	.68	.16	.26	.26	.03	.48	.16			
KUKUIHALE MILL 205	A	3.20						.01	x	x	.48							.04	.07	x	.92		.04	.02	x	x	.89	.18	.21	.14	x	.31	
KULANI CAMP 79		6.79	.05	.19	.10	.53	.10	.10		.05	.10	.03		.90	.25	.11	.10	1.18	.08	.03	.07		.50	.15	1.00	.15	.15	.27	.17	.31	.05	.05	
KULANI MAUKA 76	A	2.47			x	x	x	x	x	x	x	.18	x	x	x	x	x	1.45	x	x	x	x	x	x	.54	x	x	x	x	x	.30		
KULANI SCHOOL SITE 78	A	7.05	1.65								x	x	x	x	x	2.00	x	x	x	x	x	x	x	x	1.40	x	x	x	x	2.00	x		
LANIKAU 68.2		1.25												.33	.07	.08			.22	.33	.07										.11		
MAKAHALAU 103		.46														x		.19	.13										.07	x	x	.07	
MAUKA 2	A	5.11												x	4.80				T				x	x	.30			x	x	x	x	.01	
MAUNA KEA OBS 111.2		.83										.12	.18	.12	.04		.22	x	.15				x	x	.30								
MAUNA LOA SLOPE OBS		1.04						x	x		x	x	.47	.39		x	x	.10				x	x	x	x	.04		.04					
MIDDLE MAHALA 68.1	A	2.19									x	x	x	x	x	x	x	.27	x	x	x	x	x	x	x	1.77	x	x	x	x	x	.15	
MIDDLE PEN 147.1	A	.00																															
MOAUA 18	A	1.00	x	x	x	x	x	x	x	.80	x	x	x	x	.12	x	x	x	x	x	x	.08											
MOUNTAIN VIEW 91	A	15.82	.08	1.64	.65	.24	.51	.14		.19	.29	.11	.05	.67	.04	.13	.55	2.90	.11	.12	.19	.02	1.06	1.24		.97	.51	1.34	.34	.42	.55	.76	
NAALEHU 14	A	1.65			.21	T							.05	.98	.02		.05						.11										
NAPAHU 28	A	1.55				x	x	x	x	x	.19	x	x	x	x	x	x	.28	x	x	x	x	x	.85	x	x	x	x	x	x	x	.23	
OKALA 223	A	10.67			.02	.10	.34	.10	.17	.12		.12	.01	T			.09	4.38	.08	.06	.08	.01	1.20	.39	.02	.34	.11	2.09	.23	.50	.14	.05	
OPIMAHLE 2 24.1		1.90		.12	.01		.50	.40	T	T			T	T			T	.12		.11	.05		.03	.03			.02	.42	T	T	.09	T	
BECHIO LAND EST 91.5	A	15.87	x	x	x	x	x	x	x	x	x	x	x	x	3.37	x	x	x	x	x	x	10.15	x	x	x	x	x	x	x	2.35	x	x	
BARUAU 217		3.75			.10		.07	.02		.08								.14			.02		.72	.30	.03	.50	.03	.40	.03	.28	.03		
PARUULO 221		4.99			.03	.13	.03	.07	.04		.01			T			.01	1.16	.08	T	.07		1.27	.32	.01	.29	.05	.79	.20	.33	.10		
PAHALA 21	A	1.18			.01					.01	.04			.97	.10								.03				.01						
PAHA 65		16.68	.27	1.27	.50	.30	.11	.12	.35	.01	.16	.08	.05	.18	.04	.04	1.37	7.18	.15	.14	.15	.05	.37	.51		.60	.38	.81	.18	.76	.22	.33	
PAKAO 37	A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
PAPAIKOU 144.1	A	13.08	x	x	1.92	.50	.39	.16	.25	x	x	.50	.41	.01	.17	x	x	1.83	.13	.07	.10	.04	x	x	1.31	.48	1.15	1.40	.88	x	x	1.37	
PAPAIKOU MAUKA 140.1	A	20.34	x	x	2.30	.50	.63	.16	.41	x	x	.16	.94	.03	.22	x	x	3.82	.11	.05	.44	.05	x	x	3.40	.82	1.03	2.80	.77	x	x	1.71	
PIIHONUA 89	A	26.20	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	26.20	
POHAKULA 107	A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
PUUKOHOLA HEIAU 98.1	A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
PUU LEHUA 73	A	.80	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	.80	
PUU LARUA 94.1	A	2.00	x	x	x	x	x	2.00	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	
SADDLE ROAD 1 84	A	16.73	x	x	x	x	x	x	x	x	x	x	x	x	3.10	x	x	x	x	x	5.07	x	x	x	x	x	x	x	6.56	x	x	x	x
SOUTH KONA 2 31		2.37												1.58	.38	.01																	
SOUTH POINT CORRAL 3	A	.16												x	.16																		
UPULU POINT USCG 159.2		.96			.07	.09	T	.01	x	x	x	x	x	T	T		.15	.15	T	T		T	T	T	T	.29	T	T	.10	.10	T		
WAIKAEA SCO 88.2	A	15.26	.07	.45	.55	.67	.45	.12	.42	.03	.04	.02	.01	1.96	.10		.82	2.61	.12	.11	.22	T	1.40	.62	T	.75	.55	1.15	.71	.65	.23	.43	
WAIKALOA-BBIS CAS 95.8		.88			.01								.61	.26																			

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# DAILY PRECIPITATION

HAWAII AND PACIFIC  
OCTOBER 1977

STATION	TOTAL	DAY OF MONTH																																
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
PACIFIC																																		
EAST OF 180TH MERIDIAN																																		
ATU V	17.12	.72	.07		2.48	3.43	.03		.12	.18	2.32	.38		.40	1.50	1.12		.03	2.22	.12		.91	.52			.05				.30	.22			
CANTON ISLAND	2.39			.90	.01							.20		.02	.61	.14							.08				.43							
FAKA ALU RESERVOIR																																		
FALEASAO VILLAGE	24.93	.54	.70	.04	.17	.21	.95	2.43	.56	1.76	.08	.25	1.16	.84	.63	.71	.81	.09	.80	.19	.16	.63	2.16	.92	.52	1.06	2.07	2.73	.98	.77	.01	T		
JOHNSTON IS WSO AP	2.14	.01	.23	.07	.07	T	T	.03	T	.19					.02	T	T	.02	.10	.01	T	.01	.01	.29	T	.31	.01	.12	.01		.63			
LEONE	16.83	1.20	.09	.01	2.66	2.10		.02	.04	.14	4.55	.90	.01	1.14	.88	.14	.15	1.74	.05	.36	.04	.01	.34									.26		
FRENCH FRIGATE SHOALS	4.82	.32	.04		.66	.07		.02		.07		.01		.05	.05	.26	.12	1.15	.13	.79			.01			.05	.05	.56	.24		.22			
HIGHWAY SAND ISLAND	2.31	.09	.15	T	T	T		T		.04	T	.02		.05	.07		T	T	.02	.90	T		.02	.02	T	.02	T			.13	.25	.13	.02	
PAGO PAGO WSO AP	10.06	.05		.01	1.81	1.24		T	T	.04	1.68	T		2.38	.50	.04	.02	1.59	.08	.13		.11	.15						.20	.01	.02			
WESTERN PACIFIC ISL. NORTH OF 12 N																																		
ANDERSEN AFB GUAM	14.17	1.00	.04		T	T	T	T		2.23	.02		.20	.82	1.13	.93	.53	T	.12	1.88	1.56	.59	1.51	.13	.35	.12	T	.50	.02	.05	.06	.38		
CLARK AFB LUZON	.83	.11			.01	.01	.19		.42					.09	T															T		.37		
GUAM NAS	15.47	.26	.49	.06		.04	.22	.30	.07	1.80	.02		.13	1.03	1.13	.43	.78	.04	.30	4.73	1.96	.32	.79	.01	.18	.01	T			T	.21	1.67		
GUAM WSO	16.67	.37	.24	.19	.03			.37	1.20	.01	.44			.64	.76	.95	.47	.01	.21	4.84	1.86	.21	1.20	.03	.51	.25	T							
MANGILAO	16.41	.07	.68	.04	.40		.12	.02	.03	1.28	1.70			2.10	.33	.82	.57	1.00	.08	.27	2.00	2.00	1.01	1.55	.04	.22	.02	.03	.01		.02			
NOTA	8.96					.03		.01				.13	.05	1.58	.96			.03	.03	.08	1.19	1.09					3.70	.04	.01			.03		
SAIPAN LIBRAM																																		
WAKE ISLAND WSO AP	10.33	.83	1.69	T	.06	.08	.02	.13	.84	.12	.78	.23	.04	.26	.05	.13	.12	.23	.13	T		.01	.14	.48	1.14	1.45	.05	1.14		T	T		.18	
CAROLINE AND MARSHALL ISLANDS																																		
ANGUAR	7.39	.05	.13	.21	.07	.71	.58	.02	.02		.37	.08	.10	.81	.40	.16	.20	.08	1.13	.75	.20	.02				.02	.04	.01		.32	.63	.18		
ENIWETAK																																		
FALALOP I. ULITHI	7.28	.30	1.25	.35	.38	.05				.40	.10	.20	.15		.05	.15	1.60	1.25	.10	.15		.15	.20	.10	.05	.15			.10		.05			
KAPINGMARANGI ATOLL																																		
KOROR WSO	10.63	.02	.55	.49	1.08	1.36	.23	.12		.07	1.62	.02	.02	.21	.23	2.12	.65	.29			.03	.23	.15	.20	.77	.02	.05		.01	.01		.08		
KWAJALEIN MISSILE RMN	14.09	.99	.01		.29	.02	1.08	.23	.15	.69	.43	.09	.40	.76	.04	.86	1.44	.28	.06	.95	.19	.81				.06	.05	3.09	T	.05	.01		1.05	
LELE I. KUSAIE					.06	.20		T	.16	.53	T	.45	.75	.17	.29	.05	.01	.39			.18											.31	.22	
MAJURO WSO AP	17.59	.48			.05	1.20	.55	.19	.42	.27	.97	.82	.84	.20	.40	.13	.05			1.28	2.25	.06	.30		1.57	3.64	.57	.15	.37	.18	.63	.02		
METALANIM	23.54			.35		.03		3.41	1.56	1.12	.18	.13	.03	1.39		.11	.30	1.34	6.70	1.55	1.53	2.34		.30				.02	.17	.03	.36	.33	.26	
MAKIL ATOLL																																		
NGASANGABABELTHUAP																																		
PONAPE WSO	20.00		1.46	.42		.07	.03	6.16	1.06	.30	T	.05	.42	.54	.37	.17	.70	1.99	2.08	.49	.71	.95	.10	T			.41	.11	.30	.82	.20	.08		
SATAWAN ATOLL																																		
TRUK MOEN I. WSO AP	16.21	.58	2.48			.90				1.50	1.46	.50	.01	T	2.44	.01	.01	.19	.50	.08	.15	.06	T	.20	.03	.69	.20	.35	2.85	.65	.35	.01	.01	
WOLEAI ATOLL																																		
YAP WSO AP	5.76	.08	.03	.13	.43	.60	.06	.87	.01	.10	.45	.11	.22	.09	1.24	.25	.19	T				.58		.30		.01						.01		

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## DAILY TEMPERATURES

HAWAII AND PACIFIC  
OCTOBER 1977

STATION		DAY OF MONTH																															AVERAGE
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
HAWAII																																	
• • •																																	
ISLAND OF KAUAI																																	
KANALOHULUHULU 1075	MAX MIN	72 52	72 54	72 52	74 58	75 58	74 58	70 54	69 54	70 51	70 52	74 50	71 49	73 49	73 49	74 49	73 58	74 60	75 57	71 57	74 58	72 49	75 46	72 46	69 55	63 57	70 56	72 56	65 57	70 59	73 56	71 49	71.7 53.7
KILAUEA POINT 1133	MAX MIN	87 76	85 76	86 76	87 75	86 74	86 73	84 74	82 74	85 72	84 73	85 73	88 73	88 73	87 75	84 75	83 74	85 75	82 71	83 72			84 73	85 72	85 70	80 71	81 71	82 74	83 71	83 75	85 73	84.6 73.3	
KOLOA LN (MAK) 940.1	MAX MIN	90 73	88 73	89 73	86 75	86 74	87 70	85 71		89 72	90 70	87 71	89 70	89 69	92 70	86 73	87 72	87 72	86 74	85 73	85 72		86 70	85 70	86 68		80 70	82 70	85 69	85 73		86.6 71.4	
LIHUE WSO 1020.1 AP	MAX MIN	84 72	85 74	85 78	85 78	85 75	86 74	85 76	85 78	85 74	85 70	84 71	84 70	85 69	85 70	85 75	84 74	85 77	85 77	84 74	86 76		86 70	85 72	86 74	80 72	83 73	84 76	83 73	84 76	84 75	85 75	84.6 74.0
MANA 1026	MAX MIN	89 67	85 69	85 69	90 68	91 67	91 66	89 66	87 66	90 67	89 69	87 67	88 68	89 69	89 67	89 67		90 68		90 69	90 66	86 67	89 62	90 67	89 65	90 67	82 65	88 67	88 65	86 63	89 67	87 66	88.3 66.8
NIU RIDGE 1035	MAX MIN			87 68	89 64	89 62	88 62	89 62			89 61	88 61	89 61	88 61	88 60		80 60	89 60	89 60	89 59			89 59	89 58	89 58	89 53	89 53	89 58	89 58	89 53	89 58	89 53	89 58
WAIKAI LOWER 1054	MAX MIN	79 65	80 67	82 71	86 70	82 68	79 67	80 66	78 67	79 67	78 63	79 64	78 62	78 61	79 62	79 66	77 65	77 67	79 68	79 66	78 65		79 65	79 66	78 63	78 66	76 66	75 67	75 66	77 65	78 66	78 67	78.6 65.8
• • •																																	
ISLAND OF OAHU																																	
ALOHA STADIUM-HALAWA	MAX MIN			89 68	89 74	84 74	87 70	86 71				88 68	88 71	91 70	88 69			91 70	86 72	86 74	86 74	85 74			87 67	84 71	79 72	85 73	83 70			86 72	
B Y U LAIE 903.1	MAX MIN			86 75	85 74	85 75	87 74	86 74			85 72	86 70	87 71	86 72	87 70			87 74	88 71	87 73	88 74	86 71		87 68	87 68	83 61	81 71		84 71	86 73	85 75	85.9 72.1	
EWA PLANTATION 741	MAX MIN			87 66	90 70	89 70	88 69	88 70			88 71	86 72	90 70	90 71			90 69	90 71	89 70	87 72	87 69		90 65	88 70	81 70	87 70	87 70		87 70		87 68		
HONOLULU WSO 703 AP	MAX MIN	87 70	89 74	89 76	88 76	89 75	88 74	89 75	89 70	86 70	88 72	87 74	87 72	87 71	90 71	90 77	90 77	90 78	89 78	88 77	87 76	90 75	90 71	86 69	88 74	88 74	87 76	85 74	88 75	88 75	89 74	88.1 74.0	
KANEHE MAUKA 781	MAX MIN	84 74	82 72	83 73	82 75	82 74	83 72	83 73	82 73	82 73	84 73	83 73	87 74	81 73	86 73	83 72	84 71	83 74	83 74	82 74	81 73		81 73	84 72	81 72	82 71	78 71	80 72	81 73	81 73	82 73	81 73	82.4 72.7
MANOA LYON ARBORETUM	MAX MIN	87 68	87 68	87 72	83 72	78 72	80 68	83 68	84 69	83 69	85 69	84 69	89 67	87 66	88 66	86 69	84 71	83 72	84 71	85 70	76 69	81 70	83 69	85 68	82 68	81 69	78 67	81 69	82 68	79 68	81 69	82 68	83.2 68.9
OPAEULA 870	MAX MIN	83 67	84 66	84 66	82 70	82 69	82 67	82 67	80 67	82 69	85 69	85 68	85 65	84 65	85 64	85 64	85 70	85 66	85 66	82 71	79 67	82 66	81 66	83 65	81 61	75 64	75 65	77 65	80 65	78 67	80 70	80 67	81.9 66.6
WAIALEE 896.3	MAX MIN	85 72	85 75	85 75	85 76	83 74	83 72	83 74	84 71	84 73	85 73	82 72	83 70	83 69	83 71	84 73		84 70	84 74	83 75	83 73	82 73	83 75	83 69	82 70	83 70	77 72	81 73	81 70	80 70	82 74	82.9 72.4	
WAIALUA 847	MAX MIN	89 68	88 67	88 68	90 68	85 64	85 64	86 63	87 65	88 67	88 65	86 65	85 65	85 63	85 63	88 65	86 68	86 66	87 68	85 66	86 64	86 62	86 64	89 62	83 67	78 64	84 63	85 67	85 68	85 65	86 62	86.1 65.2	
WAIKIKI 717.2	MAX MIN	90 67	90 69	91 72	89 73	88 71	89 69	89 71	89 67	88 65	88 67	89 68	90 68	90 66	91 65		90 73	90 74	90 71	89 72	89 69	87 71	90 67	90 65	87 65	87 69	85 70	87 71	87 69	85 70	88 69	87 69	88.7 69.3
WAIMANALO EXP FARM	MAX MIN	86 71	85 72	85 75	84 76	85 72		85 75	85 72		85 74	84 72	88 69	85 67	83 67	85 69	85 73	84 74	85 74		85 74	85 72	84 74	83 75	85 71	84 72	83 72	84 74	84 70	84 73	84 74	84.5 72.6	
• • •																																	
ISLAND OF MOLOKAI																																	
MOLOKAI AP 524	MAX MIN																																
• • •																																	
ISLAND OF LANAI																																	
LANAI AIRPORT 656	MAX MIN	81 66	83 64	79 68	83 64	82 63	83 63	82 62	82 61	83 62	82 66	80 67	84 63	81 67	80 65	84 65	82 66	85 69	85 64	82 64	82 66	82 63	84 64	83 66	83 66	80 64	81 66	82 63	83 62	78 68	83 64	81 63	82.1 64.6
LANAI CITY 672	MAX MIN																																
• • •																																	
ISLAND OF MAUI																																	
HALEAKALA RS 338	MAX MIN	65 46	67 45	68 45	67 49	72 46	68 46	62 41	63 39	62 41	64 45	65 51	65 53	61 46	60 46	64 50	70 55	70 49	68 51	69 47	61 46	65 47	68 46	67 45	63 48	70 44	56 46	63 47	65 47	67 48	68 43	64 45	65.4 46.5
HANA AIRPORT 355	MAX MIN	85 72	85 70	85 72	84 65	85 71	85 70	83 70	84 69	84 70	85 70	83 68	84 68	85 68	87 70	85 72	85 73	84 73	84 70	84 72	83 69	84 72	84 69	83 70	80 69	82 72	84 69	84 70	82 70	83 75	83 71	84.0 70.6	
KAAHAPALI AP 453.1	MAX MIN	83 68	87 72	85 71	85 74	85 71	85 70	83 70	83 69	83 67	83 71	83 73	83 72	85 70	84 70	88 73	84 74	85 70	85 74	85 74	85 67	85 71	84 68	85 71	79 71	82 74	85 68	84 70	82 73	83 70	85 69	84.4 70.8	
KAHULUI WSO 398 AP	MAX MIN	91 67	93 72	89 72	87 70	88 71	85 69	88 73	91 66	89 66	83 71	84 75	86 72	85 69	90 67	87 70	86 72	87 76	89 67	85 75	85 70	90 69	82 75	84 67	82 73	86 75	87 67	86 73	84 72	85 69	86 66	86 66	86.7 71.1
KAILUA 446	MAX MIN			81 72	80 72	80 69	80 69	78 68			80 65	79 68	81 69	83 67	82 67			82 70	79 69	81 68	79 68				80 67	74 67	78 67	78 68	78 67		78 66		
KEAWAKAPU BEACH 260.2	MAX MIN	88 66	87 70	90 69	85 68	85 66	88 67	88 65	90 66	88 66	88 71	85 73	85 72	86 69	87 68	87 68	90 69	91 70	87 67	85 66	87 65	88 68	88 67	89 65	84 66	87 65	88 65	88 67	87 64	87 65	89 66	88.1 67.3	
KULA SANATORIUM 267	MAX MIN	71 52	70 53	70 52	69 53	70 55	72 54	72 55	70 58	72 57	75 55	75 56	77 57	68 58	71 54	70 55	76 53	70 54	67 56	68 55													

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# DAILY TEMPERATURES

HAWAII AND PACIFIC  
OCTOBER 1977

STATION		DAY OF MONTH																															AVERAGE
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
HAWAII																																	
LAHAINA 36.1	MAX MIN	88 69	88 69	89 70	90 70	88 70	88 70	89 68	88 67	89 67	86 68	86 74	86 76	92 72	89 71	91 69	89 70	89 70	89 70	90 67	89 67	89 67	89 67	91 67	90 68	90 68	87 69	87 67	88 70	88 70	89 68	88 67	88.7 69.2
WAILUKU 38.6	MAX MIN			87 72	84 73	83 73	83 72	82 73			86 67	81 72	83 73	84 70	84 70		84 80	83 80	84 72	83 72	83 73			84 71	78 70	82 72	84 74	82 69				82 67	
ISLAND OF HAWAII																																	
HAWAII VOLCNS NP HO 54	MAX MIN	73 56	68 51	67 55	73 51	70 53	72 57	71 55	70 53	72 54	72 55	77 60	74 57	74 58	76 57	74 50	75 59	74 58	64 56	68 51	69 54	70 54	72 61	72 56		75 53	69 53	65 50	69 56	67 55	65 54	70 51	70.9 54.8
HILO WSO AP 87	MAX MIN	82 70	83 72	87 68	84 70	85 68	85 67	84 69	86 67	87 68	88 68	90 74	88 72	88 69	85 69	86 66	83 71	83 73	84 71	85 69	84 69	82 71	84 73	84 72	83 67	84 68	79 69	85 70	82 70	83 69	81 69	79 65	84.3 69.5
KAINALIU 73.2	MAX MIN	83 66	84 64	83 64	82 65	83 65	82 66	79 63	84 60	84 63	81 65	81 66	80 68	78 66	82 65	78 65	84 67	83 70	80 67	78 66	78 65	78 63	82 65	84 63	83 64	76 65	82 62	81 68	80 64	80 62	81 62	82 66	81.2 64.8
KAMUELA 192.2	MAX MIN			87 55	75 63	75 61	74 60	74 61			78 52	81 57	80 61	80 54	81 59		71 62	72 63	73 61	73 62	73 62			74 61	72 61	72 62	72 61	72 61				71 54	
KAPOHO BEACH 93.11	MAX MIN	89 75	90 72	87 68	86 72	88 72	86 69							92 68	87 72	88 68	86 75	83 75	86 70	86 72	86 70	83 71	88 70	87 69	87 69	85 66	85 66	84 67	85 67	85 67	84 67	81 65	86.1 71.2
KERRAU 92	MAX MIN	84 68	80 70	83 66	83 66	82 67	81 66	83 65	81 67	82 68	83 67	83 66	88 71	84 68	85 68	84 65	85 66	81 66	80 70	82 67	81 67	81 67	81 69	81 69	81 66	82 66	82 67	78 66	81 67	81 67	80 65	78 65	82.0 67.2
KOHALA MISSION 175.1	MAX MIN	82 67	84 70	84 69	82 71	83 68	81 69	81 68	81 67	82 67	82 67	83 68	88 71	88 68	86 69	83 71	84 73	79 70	79 72	81 70	81 68	81 69	79 69	81 70	81 67	76 68	79 67	79 68	79 67	77 67	75 68	78 65	81.3 68.6
KONA (KAILUA) 68.3	MAX MIN			88 72	87 73	87 73	87 74	87 71					87 71	85 76	86 71	72			88 72	86 72	85 73	85 69				88 70	87 70	80 71	85 70			86 70	
KULANI CAMP 79	MAX MIN	65 46	68 48	59 50	69 50	64 50	64 50	60 50	63 50	67 47	67 52	73 46	71 55	67 56	66 49	68 47	68 44	66 54	64 56	64 53	65 59	60 56	67 47	69 49	81 51	61 53	61 53	61 52	63 51	63 55	65 50	65.5 50.9	
MAUNA LOA SLOPE 085	MAX MIN	55 40	56 39	63 43	60 45	56 42	58 40	54 38	50 36	53 36	56 41	49 43	45 41	48 38	50 36	54 35	52 37	51 36	52 37	55 35	54 35	52 31	53 36	56 37	53 38	51 35	50 33	54 36	55 38	58 41	55 41	53 38	53.6 38.0
MOUNTAIN VIEW 91	MAX MIN	81 64	75 61	75 61	80 61	77 62	78 61	79 61	77 61	79 60	79 60	82 61	84 68	82 64	83 63	80 59	82 60	82 64	81 60	79 62	75 62	78 63	77 65	77 61		79 64	78 63	73 63	78 63	74 63	74 60	74 60	78.3 61.8
NAALEHU 14	MAX MIN			85 68	83 68	83 68	82 69	83 69			83 67	84 68	85 72	82 68	81 69			83 67	75 71	80 67	81 62	82 64			82 62	83 63	81 69	81 70	82 70			82 66	
OOKALA 223	MAX MIN	82 70	82 69	85 70	81 70	82 70	81 67	81 68	80 69	80 71	82 67	80 68	83 72	84 71	83 69	82 63	82 70	82 65	77 72	80 69	81 68	81 68	80 69	78 68	80 68	79 69	80 67	79 67	78 68	77 68	77 68	78 69	80.6 68.6
OPIHIHALE 2 24.1	MAX MIN	84 60	84 62	85 60	82 60	84 63	79 62	82 57	83 58	83 57	82 62	83 63	83 61	80 61	80 62	80 61	87 64	82 64	83 64	80 60	82 58	85 59	85 60	84 60	77 60	84 58	83 58	83 60	77 58	80 59	82 60	78 60	82.1 60.3
PAHALA 21	MAX MIN			83 65	84 64	86 65	84 65	82 64			83 63	84 65	85 70	78 65	81 65			85 63	77 68	81 65	86 64	85 64			84 62	86 65	85 68	82 66	83 67			86 64	
PUUKOHOLA HEIAU 98.1	MAX MIN	90 71	90 71	89 72	91 71	92 76	91 73	80 73	93 69	89 69	88 70	89 75	81 74	91 73	89 73	89 73	93 74	87 74	92 75	92 73	90 70	90 69	90 69	91 73	90 70	89 72	88 70	87 70	88 70	90 73	88 71	89 71	89.2 71.8
SOUTH KONA 2.31	MAX MIN	83 59	83 62	80 63	80 60	79 62	80 62	78 63	79 60	80 60	81 58	84 66	83 65	78 60	78 58	77 61	81 62	83 65	74 64	79 61	79 57	79 59	79 61	82 58	76 56	79 59	76 60	79 61	78 59	76 62	77 61	77 60	79.3 60.8
UPOLU POINT USCG 159.2	MAX MIN	88 71	89 70	88 75	88 73	85 71	85 76	86 70	86 71	87 76	87 70	87 75	87 78	90 74	89 72	88 76	88 72	84 70	84 77	86 80	85 72	85 76	86 70	87 73	84 76	85 75	84 74	84 69	84 68	84 71	80 70	86.0 72.8	

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# DAILY TEMPERATURES

HAWAII AND PACIFIC  
OCTOBER 1977

STATION		DAY OF MONTH																															AVERAGE	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
PACIFIC																																		
• • •																																		
EAST OF 180TH MERIDIAN																																		
CANTON ISLAND	MAX MIN	92 83		91 78	89 79	89 80	90 80	91 81	90 82			91 81	90 82	90 81	89 81	91 82		91 82	91 81	91 82	91 81	90 82	89 82		90 82	91 82	90 81	92 82	90 80		90 81	90.4 81.2		
JOHNSTON IS WSO AP	MAX MIN	84 78	85 78	84 79	84 79	85 81	85 80	85 78	85 79	84 77	85 80	87 75	85 80	85 80	85 80	85 79	87 80	85 79	84 80	85 80	85 80	84 80	86 79	83 76	84 78	83 79	84 79	82 79	84 79	84 79	83 74	84.5 78.8		
LEONE	MAX MIN	87 78	86 79	88 80	85 75	88 80	88 82	88 81	86 78	85 77	84 77	91 82	89 81	86 79	83 75	86 79	84 79	83 79	87 80	88 80	92 82	88 84	85 79	86 78	87 78	85 78	86 80	88 81	86 79	86 79	88 78	88 78	86.7 79.2	
FRENCH FRIGATE SHOALS	MAX MIN	86 71	86 75	86 74	84 78	82 75	85 74	85 75	85 77	85 74	87 77	89 75	89 78	88 76	86 74	84 72	86 75	88 71	83 73	80 71	84 77	84 75	85 74	87 70	86 69	87 72	87 71	82 69	83 74	82 69	83 74	83 73	85.1 73.6	
MIDWAY SAND ISLAND	MAX MIN	78 64	81 69	80 73	80 72	83 73	81 72	82 73	80 74	80 72	82 71	80 70	80 72	79 72	82 72	80 70	79 68	80 71	80 70	80 71	83 74	82 71	82 74	83 74	78 72	82 74	81 74	81 74	81 73	81 70	82 72	82 73	74 69	80.5 71.5
PAGO PAGO WSO AP	MAX MIN	84 76	83 76	85 79	83 72	84 73	86 80	85 79	84 78	83 77	83 75	86 74	87 74	85 74	82 71	83 73	85 78	83 75	84 78	86 77	86 77	86 79	84 75	84 76	83 68	83 74	85 78	85 70	84 74	84 77	86 77	86 75	84.4 75.5	
• • •																																		
WESTERN PACIFIC ISL. NORTH OF 12 N																																		
ANDERSEN AFB GUAM	MAX MIN	84 78	84 79	85 78	84 78	84 77	84 77	84 75	84 79	83 76	85 78	84 78	83 76	83 77	83 75	81 76	85 79	86 77	84 75	80 75	83 77	83 76	83 76	84 76	85 76	83 76	83 75	83 76	82 75	83 77	82 77	83 77	83.5 76.8	
CLARK AFB LUZON	MAX MIN	88 73	90 75	90 77	90 75	91 75	88 77	88 75	90 75	88 77	90 77	90 75	88 77	90 77	90 77	88 77	91 77	91 75	90 72	88 77	88 72	88 73	90 73	90 77	90 73	90 73	90 72	90 72	90 75	88 77	91 77	89.5 75.1		
GUAM NAS	MAX MIN	88 78	89 78	88 78	88 78	88 78	88 76	86 76	87 78	85 78	86 76	87 78	86 78	84 76	85 78	85 77	80 77	89 78	87 79	86 77	81 76	86 79	84 75	83 79	85 79	85 78	84 76	86 77	84 76	87 75	87 75	85 75	85.8 77.2	
GUAM WSMO	MAX MIN	87 75	87 73	87 71	87 72	87 70	87 70	88 69	87 71	83 73	85 70	88 71	88 71	84 75	86 75	85 72	81 74	88 75	87 75	87 73	81 74	85 76	84 72	84 73	85 74	85 72	86 69	85 72	86 67	85 67	87 70	86 73	85.7 72.1	
SAIPAN LORAN	MAX MIN																																	
WAKE ISLAND WSO AP	MAX MIN	85 73	87 72	88 78	87 76	89 75	87 75	87 76	87 71	86 74	89 74	87 74	89 75	88 76	87 78	88 76	86 75	87 75	87 77	87 77	87 79	87 77	89 76	84 76	82 73	80 74	85 76	84 75	85 77	87 77	86 78	88 75	86.5 75.5	
• • •																																		
CAROLINE AND MARSHALL ISLANDS																																		
ENIWETAK	MAX MIN																																	
FALALOP I. ULITHI	MAX MIN	87 76	84 76	88 76	88 79	89 76	88 80	88 79	89 79	88 76	89 80	89 81	88 76	89 80	88 76	86 77	88 74	89 79	88 74	87 76	87 76	89 76	88 78	88 79	88 80	89 78	89 80	89 80	88 79	88 79	87 78	89 80	88.1 78.0	
KAPINGAMARANGI ATOLL	MAX MIN																																	
KOROR WSO	MAX MIN	90 77	90 77	89 77	89 75	85 73	86 77	88 76	90 78	87 75	87 77	90 78	90 79	86 77	88 78	82 74	87 77	89 78	88 80	88 76	87 77	89 77	89 79	90 76	87 76	89 79	91 76	88 76	89 78	89 77	90 75	89 75	88.3 77.0	
KWAJALEIN MISSILE RGN	MAX MIN	83 76	89 80	89 79	87 77	88 75	89 74	87 76	87 78	89 78	88 76	87 79	86 77	82 74	88 78	82 77	85 76	88 80	87 76	89 76	88 77	88 80	89 82	92 80	86 80	83 75	88 80	88 80	88 80	87 80	89 76	87 76	87.1 77.7	
LELE I. KUSAIE	MAX MIN	88 75	88 76	91 77	93 77	93 77	91 76	89 77	89 78	90 76	89 77	91 76	92 76	86 75	92 76	91 78	84 73	86 70	89 76	91 74	91 78	90 76	88 74	91 76		90 77	90 71	89 73	90 75	92 75	93 79	88 73	89.8 75.6	
MAJURO WSO AP	MAX MIN	87 74	89 76	88 78	90 76	88 74	87 75	89 75	89 74	87 74	84 73	88 76	87 76	86 75	86 75	88 75	87 75	88 76	89 76	84 74	85 73	89 74	88 76	87 75	88 75	87 73	88 75	88 75	87 75	84 74	88 76	87.1 75.1		
METALANIM	MAX MIN	89 75	91 75	90 72	90 70	90 72	90 74	87 73	83 75	81 71	89 75	89 74	90 73	84 75	89 74	89 74	86 75	85 73	87 75	89 73	87 72	87 72	84 71		89 72	89 73	89 75	84 72	89 71	88 70	90 73	87.6 73.2		
PONAPE WSO	MAX MIN	91 75	92 73	90 73	90 72	91 72	92 73	83 72	84 73	82 73	91 74	89 74	90 73	86 74	89 72	91 74	90 75	87 75	86 74	90 72	87 74	88 71	88 72	90 75	90 74	91 73	89 74	84 73	88 75	86 73	88 74	89 74	88.5 73.4	
SATAWAN ATOLL	MAX MIN																																	
TRUK. MOEN I. WSO AP	MAX MIN	89 78	89 76	90 78	89 80	89 74	89 75	90 77	84 72	81 74	86 75	88 78	90 79	89 74	89 75	87 76	87 76	87 77	87 78	88 77	88 79	87 78	86 76	90 79	88 77	88 77	86 73	88 75	86 75	87 79	87 79	87.5 76.6		
WOLEAI ATOLL	MAX MIN																																	
YAP WSO AP	MAX MIN	87 76	88 76	86 76	85 75	86 75	88 73	87 74	88 75	86 73	87 75	86 74	88 73	88 75	88 74	87 74	88 76	89 78	89 76	88 77	87 75	88 77	87 77	88 79	88 78	88 76	88 74	88 72	88 72	90 74	88 72	89 73	87.6 75.0	

SEE REFERENCE NOTES FOLLOWING STATION INDEX

# EVAPORATION AND WIND

HAWAII AND PACIFIC  
OCTOBER 1977

STATION	DAY OF MONTH																															TOTAL OR AVG.	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
HAWAII																																	
• • • ISLAND OF KAUAI																																	
LIHUE WSO 1020.1 AP	EVAP	.24	.21	.30	.30	.39	.34	.35	.36	.33	.25	.22	.22	.18	.02	.33	.30	.32	.19	.33	.39	.29	.47	.44	.42	.31	.26	.48	.37	.32	.44	.35	9.72
	WIND	92	70	169	221	240	192	167	205	154	85	81	87	74	85	100	171	211	223	220	251	198	156	140	188	295	367	233	220	245	241	222	560.3
	MAX	90	85	91	88	87	88	88	88	90	90	90	90	90	90	90	90	85	84	87	85	86	88	89	86	84	82	87	87	79	84	85	87.2
	MIN	67	70	71	70	70	69	68	70	69	66	67	66	65	66	65	72	71	71	70	69	68	67	66	70	67	66	68	68	66	67	68	68.2
• • • ISLAND OF OAHU																																	
HONOLULU OBSERV 702.2	EVAP	.30	.30	.34	.45	.45	.45	.45	.34	.35	.35	.30	.45	.30	.38	.30	.35	.43	.37	.40	.30	.30	.34	.30	.30	.28	.27	.22	.36	.45	.35	.45	10.98
	WIND	21	31	40	40	37	33	34	29	27	24	23	32	29	33	27	30	41	38	35	42	28	27	22	20	41	49	44	36	37	33	30	101.3
	MAX	94	91	92	94	96	96	92	89	87	90	98	94	93	93	92	92	91	91	92	92	88	92	88	85	87	86	88	88	88	87	89	90.8
	MIN	69	70	70	70	69	69	68	67	67	68	68	70	69	67	70	71	70	70	69	68	68	68	66	66	66	66	67	68	68	68	67	68.3

SEE REFERENCE NOTES FOLLOWING STATION INDEX

# EVAPORATION AND WIND

HAWAII AND PACIFIC  
OCTOBER 1977

STATION		DAY OF MONTH																															TOTAL OR AVG.	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
PACIFIC EAST OF 180TH MERIDIAN																																		
JOHNSTON IS WSO AP		EVAP	.02	.37	.31	.37	.42	.42	.37	.34	.48	.33	.22	.25	.35	.37	.27	.28	.46	.21	.27	.39	.37	.37	.45	.38	.43	.45	.21	.16	.29	.34	.39	10.34
		WIND	35	77	122	182	196	173	187	163	173	120	134	117	151	177	164	205	205	193	277	229	198	218	217	252	262	246	32	417	220	209	208	5759
WESTERN PACIFIC ISL. NORTH OF 12 N																																		
GUAM WSMO		EVAP	.03	.	.	.37	.21	.30	.17	.20	.17	.26	.23	.28	.05	.14	.29	.06	.11	.27	.	.13	.09	.16	.18	.18	.16	.13	.16	.24	.30	.24	.24	5.538
		WIND	75	90	41	41	31	36	16	43	49	43	43	34	37	79	118	90	86	76	39	95	118	201	251	161	60	21	59	30	29	58	50	2200
		MAX	88	82	89	96	95	96	90	93	89	89	94	92	84	79	81	81	95	92	93	80	87	84	81	90	92	92	90	94	96	96	90	89.4
		MIN	76	75	73	74	73	73	73	73	74	73	73	73	75	78	77	74	74	76	74	73	73	74	73	75	73	71	74	71	72	73	73	73.7

SEE REFERENCE NOTES FOLLOWING STATION INDEX



# STATION INDEX

HAWAII AND PACIFIC  
OCTOBER 1977

STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES				OBSERVER
								TEMP.	PRECIP.	EVAP.	SPECIAL (SEE NOTES)	
HAWAII												
ISLAND OF KAUAI												
ALEXANDER RESV. 983	0140	02	KOLOA	2	21 57	159 32	1610					MCBRYDE SUGAR CO.
ANAHOLA 1114	A 0145	01	KAWAIIHAU	1	22 08	159 18	180		7A		C	LIHUE PLANTATION CO
BRYOESWOOD STA 985	A 0240	02	KOLOA	2	21 56	159 32	720		7A			MC BRYOE SUG CO LTO
EAST LAWA 934	A 0456	02	KOLOA	2	21 55	159 30	440		7A			MC BRYOE SUG CO LTO
ELEEE 927	A 0470	02	KOLOA	2	21 54	159 35	150		6A			MC BRYOE SUG CO LTO
HALAULA 1110	A 0935	01	KAWAIIHAU	1	22 07	159 19	253		7A			LIHUE PLTN CO LTO
HALENANAO 1006	A 1038	02	LIHUE	2	21 58	159 26	490		8A			LIHUE PLANTATION CO
HANAHANAPUNI 1055.2	1140	02	KAUAI	2	22 03	159 25	600				C	LIHUE PLANTATION CO LTO
HANAIEI TUNNEL 1053	A 1170	01	KAWAIIHAU	1	22 05	159 28	1218		MZ			LIHUE PLTN CO LTO
HUKIPO 945	2161	03	WAIMEA	3	21 59	159 41	800		8A			KEKAHA SUGAR CO LTO
ILILIULA INTAKE 1050	A 2222	02	LIHUE	2	22 02	159 28	1050		VAR			LIHUE PLTN CO LTO
INTAKE WAINIHA PC 1086A	2227	01	HANAIEI	1	22 09	159 34	690		W1			MC BRYOE SUG CO LTO
KANALOHULUHULU 1075	3099	03	WAIMEA	3	22 08	159 40	3600		7A		C	STATE DIVISION OF PARKS
KANEHA RESERVOIR 1092	A 3104	01	KAWAIIHAU	1	22 08	159 23	830		7A			LIHUE PLANTATION
KAPAA STABLES 1104	A 3159	01	KAWAIIHAU	1	22 05	159 20	175		7A		C	LIHUE PLTN CO LTO
KEALIA 1112	A 3982	01	KAWAIIHAU	1	22 06	159 19	9		7A			LIHUE PLTN CO LTO
KEKAHA 944	4272	03	WAIMEA	3	21 58	159 43	9		8A		C	KEKAHA SUGAR CO LTO
KILAUEA 1134	A 4561	01	HANAIEI	1	22 13	159 25	320		7A		C	NICK RAPOZO
KILAUEA POINT 1133	4568	01	HANAIEI	1	22 14	159 24	180	7A	7A			MRS ELIZABETH MACIOLEK
KOLO 1033	4735	03	WAIMEA	3	22 04	159 46	36		7A			KEKAHA SUGAR CO LTO
KOLOA 936	A 4742	02	KOLOA	2	21 55	159 28	240		8A			MCBRYOE SUGAR CO
KOLOA LN (MAK) 940.1	4748	01	KAUAI	2	21 52	159 27	52	7A	7A			AUSCG LORAN STATION
KOLOA MAUKA 994	A 4750	02	KOLOA	2	21 57	159 29	640		7A			MCBRYDE SUGAR COMPANY
KUKUIULA 935	A 4950	02	KOLOA	2	21 54	159 30	100		6A			MC BRYOE SUG CO LTO
LIHUE VARIETY ST 10621A	5560	02	LIHUE	2	22 01	159 23	380		7A		C	LIHUE PLANTATION CO LTO
LIHUE 1020	A 5575	02	LIHUE	2	21 59	159 22	207		7A			LIHUE PLTN CO LTO
LIHUE WSO 1020.1 AP	R 5580	02	LIHUE	2	21 59	159 21	103	MIO	MIO	7A	J	NATL WEATHER SERVICE
MAKAWELI 965	A 5864	03	WAIMEA	3	21 55	159 38	140		7A			OLOKELE SUGAR CO
MANA 1026	6082	03	WAIMEA	3	22 02	159 46	20	8A	8A			KEKAHA SUGAR CO LTO
MOHIHI UPR CROSS 1083	A 6433	01	WAIMEA	3	22 07	159 36	3500		MIO			U S GEO SURVEY
MOLOAA 1145	A 6529	01	KAWAIIHAU	1	22 11	159 20	330		7A			THEODORE JAVELLANA JR
MOUNT WAIALEALE 1047	R 6565	03	WAIMEA	2	22 04	159 30	5148		MIO			U. S. GEO. SURVEY
NIU RIGGE 1035	6850	03	WAIMEA	3	22 02	159 44	1250	6A	6A			KEKAHA SUGAR CO LTO
N WAILUA DITCH 1051	A 6888	02	LIHUE	2	22 04	159 28	1110		7A			LIHUE PLTN CO LTO
N WAILUA RIVER 1055	A 6893	02	LIHUE	2	22 04	159 26	650		MZ			LIHUE PLTN CO LTO
PH WAINIHA 1115	8155	01	HANAIEI	1	22 12	159 34	101		6A		C	MC BRYOE SUG CO LTO
PRINCEVILLE RANCH 1117	8165	01	HANAIEI	1	22 13	159 29	295		9A		C	PRINCEVILLE RANCH INC
PUEHU RIGGE 1040	8205	03	WAIMEA	3	22 01	159 42	1660		8A			KEKAHA SUGAR CO LTO
PURH 1013	A 8217	02	LIHUE	2	21 58	159 24	329		8A			LIHUE PLANTATION CO
WAHIAWA 930	A 8941	02	KOLOA	2	21 54	159 34	215		7A		C	MC BRYOE SUG CO LTO
WAIAHI LOWER 1054	8958	02	LIHUE	2	22 01	159 27	565	6A	6A			LIHUE PLTN CO LTO
WAIAHI UPPER 1052	8966	02	LIHUE	2	22 01	159 28	780		6A			LIHUE PLTN CO LTO
WAILAWA 943	9253	03	WAIMEA	3	21 59	159 43	10		8A			KEKAHA SUGAR CO LTO
WAILUA KAI 1065	A 9467	02	LIHUE	2	22 02	159 21	50		7A			LIHUE PLANTATION
WAIMEA 947	9629	03	WAIMEA	3	21 58	159 41	20		8A			KEKAHA SUGAR CO.
WEST LAWA 931	A 9955	02	KOLOA	2	21 54	159 31	210		6A			MC BRYOE SUG CO LTO
ISLAND OF OAHU												
AHIUMANU LOOP 839.12	0055	01	KOOLAUPOKO	1	21 26	157 51	320				C	DOON MITCHELL
ALOHA STADIUM-HALAWA	0172	03	OAHU	3	21 23	157 56	40	8A	8A			ALOHA STADIUM
BERETANIA PUMPING STA	0211	02	HONOLULU	2	21 19	157 51	20		9A			BOARD OF WTR SUPPLY
B Y U LAIE 903.1	0240	01	KOOLAUPOKO	1	21 39	157 56	20	12M	12M			B Y U-HAWAII CAMPUS
CAMPBELL INO PK 702.5	0248	02	OAHU	3	21 19	158 07	10		8A			CHEVRON U S A INC
CAMP 84 807	A 0300	03	EWA	3	21 26	158 04	760		6A		C	OEL MONTE CORPORATION
COCONUT ISLAND 840.1	0350	01	KOOLAUPOKO	1	21 26	157 47	15		8A			H INST MARINE BIOLOGY
DOOWETT HIGHLOS 780.8	0438	02	HONOLULU	2	21 21	157 50	565				C	J.L. BANNING
EWA PLANTATION 741	0507	03	EWA	3	21 21	158 02	5	9A	7A			OAHU SUGAR COMPANY
HALAWA SHAFT 771.2	0964	02	HONOLULU	2	21 23	157 54	170				C	BOARD OF WATER SUPPLY
HAWAII KAI CRSE 724.19												
HELEMANO INTAKE 881	A 1384	05	WAILAUA	5	21 33	158 00	1274		W1		C	HAWAII KAI GOLF COURSE
HOKULOA 725.2	A 1540	03	EWA	3	21 24	158 06	2220				C	WAILAUA SUGAR CO. INC.
HONOLULU OBSERV 702.2	1918	03	EWA	3	21 19	158 00	5		9A		C	H. V. VON HOLT
HONOLULU WSO 703 AP	" 1919	02	HONOLULU	2	21 20	157 55	7	MIO	MIO		J	NATIONAL WEATHER SERV
KARLAKEI 724.6	2269	02	HONOLULU	2	21 18	157 43	10				C	NATL WEATHER SERVICE
KAENA POINT 841.3	2410	04	WAILAUA	4	21 34	158 15	1240		9A			MRS. MILLIE ZAPATA
KAHANA 883	A 2462	01	KOOLAUPOKO	1	21 31	157 54	800		W1			U S AIR FORCE
												WAIHOLE WTR CO LTO

SEE REFERENCE NOTES FOLLOWING STATION INDEX

## STATION INDEX

HAWAII AND PACIFIC  
OCTOBER 1977

STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES				OBSERVER
								TEMP.	PRECIP.	EVAP.	SPECIAL (SEE NOTES)	
ISLAND OF OAHU												
KAHUKU 912	A	2570	01	KOOLAULOA	1 21 42	157 59	15				C	KIULIMA HOTEL
KAILUA FIRE STA 791.3		2683	01	KOOLAUPOKO	1 21 24	157 45	10		8A		C	KAILUA FIRE STATION
KALIHI RES SITE 777	R	2960	02	HONOLULU	2 21 23	157 50	910		M10			BOARD OF WTR SUPPLY
KANEIHE MAUKA 781		3113	01	KOOLAUPOKO	1 21 25	157 49	325	7A	7A			STATE HOSPITAL
KAPALAMA 773	A	3268	02	HONOLULU	2 21 21	157 52	614		8A			KAMEHAMEHA SCHOOLS
KAWAIHAPAI 841	A	3734	05	WAIALUA	5 21 35	158 11	40		7A			WAIALUA SUGAR CO. INC.
KEMOO CAMP 8 855	A	4318	05	WAIALUA	5 21 33	158 05	725		7A			WAIALUA SUGAR CO. INC.
KOOLAU DAM 833	A	4766	05	WAIKAWA	5 21 30	157 58	1160		8A			C & F OFFICER HEOG
LULUKU 781.7		5655	01	KOOLAUPOKO	1 21 24	157 49	240				C	NATIONAL WEATHER SERV
MAKAHA PUMP 800.2	A	5782	04	OAHU	4 21 29	158 12	400		8A		C	CAPITAL INVESTMENT CO.
MAKAKILO 730.1		5789	03	OAHU	3 21 21	158 06	300		6A			NEAL ADAMS
MANOA 712.1		6122	02	HONOLULU	2 21 19	157 49	220		7A			MRS. JOHN H. BEAUMONT
MANOA LYON ARBORETUM		6128	02	OAHU	2 21 20	157 48	500	8A	8A			LYON ARBORETUM
MANOA TUNNEL 2 716	R	6130	02	HONOLULU	2 21 20	157 48	650		M10			BOARD OF WTR SUPPLY
MAUNAWILI 787.1		6222	01	KOOLAUPOKO	1 21 21	157 46	395				C	EXP. STA. H.S.P.A.
MOANALUA 770		6395	02	HONOLULU	2 21 21	157 54	20		9A			JOHN A ROXBURGH
MOUNT KAALA 844		6553	04	WAIANAE	4 21 31	158 09	4015				C	FEDERAL AVIATION ADM
NUUANU RES 4 783		6928	02	HONOLULU	2 21 21	157 49	1048		M10			BOARD OF WTR SUPPLY
NUUANU RESERVR 5 775	A	6933	02	HONOLULU	2 21 21	157 50	410		W1			BOARD OF WTR SUPPLY
OPAEULA 870	A	7150	05	WAIALUA	5 21 34	158 02	1060	7A	7A			WAIALUA SUGAR CO. INC.
PAIKO OR 723.4		7540	02	HONOLULU	2 21 17	157 44	10		6P			O L GRUBB
PALI GOLF COURSE 788.1		7656	01	OAHU	1 21 23	157 47	480		10A			CC DEPT PK5 RECREATION
PALOLO VALLEY 718	R	7664	02	HONOLULU	2 21 20	157 46	995		M10			BOARD OF WTR SUPPLY
PAUOA FLATS 784	R	7810	02	HONOLULU	2 21 21	157 48	1640		M10			BOARD OF WTR SUPPLY
PEARL COUNTRY CL 760.2		7942	03	OAHU	3 21 23	157 56	120					PEARL COUNTRY CL8 OF HA
PUNALUU PUMP 905.2		8314	01	KOOLAULOA	1 21 35	157 54	20					MRS OAVIO OELAO
PUNCHBOWL CRATER 709	A	8316	02	HONOLULU	2 21 19	157 51	360		8A			NAT MEM CEMETERY
PUPUKA HEIGHTS 896.4		8342	01	WAIALUA	1 21 39	158 02	900					JACK N. WHEELER
PUU MANAWAHUA 725.6		8500	03	OAHU	3 21 23	158 05	2080		8A			HUGH HAMILTON
TANTALUS 2 780.5		8738	02	HONOLULU	2 21 20	157 50	1325		7A			R. E. WHITE
UNIV OF HAWAII 713	A	8815	02	HONOLULU	2 21 18	157 49	79		8A			DEPT OF GEOSCIENCE
UPPER WAIKAWA 874.3		8838	05	OAHU	5 21 31	158 01	1115		6A			W B RUTHERFORD
WAIKAWA DAM 863	A	8945	05	WAIKAWA	5 21 30	158 03	854		7A		C	WAIALUA SUGAR CO. INC.
WAIKAWA 837	A	8964	01	KOOLAUPOKO	1 21 28	157 53	745		8A		C	WAIKAWA WTR CO LTO
WAIKAWA KAHALA 715		9185	02	HONOLULU	2 21 17	157 47	40		7A			SPENCER TINKER
WAIKAWA 896.3		9190	01	KOOLAULOA	1 21 41	158 02	33	8A	8A			WAIKAWA LIVESK RES FARM
WAIKAWA 847	A	9195	05	WAIKAWA	5 21 35	158 07	32	7A	7A		C	WAIKAWA SUGAR CO. INC.
WAIKAWA 798.2	A	9231	04	WAIKAWA	4 21 27	158 11	10		7A			BEN MAYES
WAIKAWA 836	A	9261	03	EWA	3 21 28	157 56	800		M0			WAIKAWA WTR CO LTO
WAIKAWA 885	A	9340	01	KOOLAUPOKO	1 21 30	157 53	760		W1			WAIKAWA WTR CO LTO
WAIKIKI 717.2		9397	02	HONOLULU	2 21 16	157 49	10	8A	8A			HONOLULU ZOO
WAILUPE VLY SCH 723.6		9500	02	HONOLULU	2 21 18	157 45	180				C	WAILUPE VALLEY SCHOOL
WAIMANALO EXP FARM		9523	01	KOOLAUPOKO	1 21 20	157 43	60	7A	7A			WAIMANALO EXP FARM
WAIMANALO NONOKI 795.2		9534	01	OAHU	1 21 20	157 43	120				C	WAIMANALO EXP FARM
WAIMANA 892	A	9593	05	WAIKAWA	5 21 38	158 04	330		7A		C	WAIKAWA SUGAR CO INC
WAIKAWA 750	A	9738	03	EWA	3 21 23	158 01	59		8A			WAIKAWA WATER COMPANY
WILHELMINA RISE 721	R	9980	02	HONOLULU	2 21 18	157 47	1100		M10			BOARD OF WTR SUPPLY
ISLAND OF MOLOKAI												
KALAUAPAPA 563	A	2896	01	MOLOKAI	1 21 12	156 59	30		8A			KALAUAPAPA SETTLEMENT
KAUNAKAKAI 536		3541	01	MOLOKAI	1 21 06	157 01	12		7A			MOLOKAI RANCH LTO
KAUNAKAKAI MAUKA 536.5		3547	01	MOLOKAI	1 21 06	157 01	70				C	MOLOKAI GENERAL HOSP.
KEONELELE PENS 551	A	4394	01	MOLOKAI	1 21 12	157 12	560		VAR			MOLOKAI RANCH. LTO.
KUALAPUU 534	A	4778	01	MOLOKAI	1 21 09	157 02	825		7A		C	OEL MONTE CORPORATION
MAUNALO 511	A	6190	01	MOLOKAI	1 21 08	157 13	1070		9A		C	MOLOKAI RANCH COMPANY
MOLOKAI AP 524		6534	01	MOLOKAI	1 21 09	157 06	450	8A	8A			ALOHA AIRLINES
PUU O HOKU RANCH 542.1		8549	01	MOLOKAI	1 21 09	156 44	700		6A		C	CHARLIE APIA (FOREMAN)
WAIKOLU 540	A	9404	01	MOLOKAI	1 21 08	156 55	3550		W1			MOLOKAI RANCH COMPANY
ISLAND OF LANAI												
KANEPUU 690	A	3130	01	LAHAINA	1 20 52	157 00	1650		W1			U S O A
KAUNALAPUU HARBOR 658		3461	01	LAHAINA	1 20 47	157 00	30		8A		C	OOLE COMPANY
LANAI AIRPORT 656		5275	01	LAHAINA	1 20 48	156 57	1300	8A	8A			HAWAIIAN AIR
LANAI CITY 672	A	5286	01	LAHAINA	1 20 50	156 55	1620	7A	7A		C	OOLE COMPANY
LANAIHALE 684	A	5301	01	LAHAINA	1 20 49	156 53	3370		W1			U S O A
MAHANA 694	A	5704	01	LAHAINA	1 20 52	156 55	1430		M0			U S O A
MALAEUA 676	A	6012	01	LAHAINA	1 20 46	156 55	1150		W1			U S O A
WAIKAEKUA 685	A	9021	01	LAHAINA	1 20 47	156 52	2000		WM			KOELE COMPANY

ISLAND OF MAUI

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AUWAHI 252

A 0175 02 HANA

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ULUPALAKUA RANCH

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								TEMP.	PRECIP.	EVAP.	SPECIAL (SEE NOTES)	
ISLAND OF MAUI												
HAELAAU 477	A 0790	04	LAHAINA	4	20 57	156 36	2980		MZ			MAUI LAND-PINEAPPLE CO U OF H AGRIC EXP STA HALEAKALA RANCH CO HALEAKALA NATL PARK MAUI LAND-PINEAPPLE CO HAWAIIAN COM & SUG CO HARRY HASEGAWA ROYAL HAWAIIAN AIRLINES HALEAKALA NATL PARK RGS MAUI LAND-PINEAPPLE CO
HALEAKALA 8 E 5 434	A 0995	01	MAKAWAO	1	20 51	156 18	2100		7A			
HALEAKALA RANCH 432	A 0999	01	MAKAWAO	1	20 50	156 19	1850		8A			
HALEAKALA R5 338	1004	02	MAKAWAO	2	20 46	156 15	7030	8A	8A			
HALIIMAILE 423	A 1075	01	MAKAWAO	1	20 52	156 21	1070		3A			
HAMAKUAPOKO 485	1086	01	MAKAWAO	1	20 55	156 21	320		5A			
HANA 354	A 1122	01	HANA	1	20 45	155 59	120		8A		C	
HANA AIRPORT 355	1125	01	HANA	1	20 48	156 01	61		8A			
HOLUA CABIN 259.5	A 1552	02	MAKAWAO	2	20 45	156 13	6930		MO			
HONOKOHU 480	A 1882	04	LAHAINA	4	20 58	156 36	870		MO			
HONOKOHU 493	A 1887	04	LAHAINA	4	21 00	156 39	135		6A			MAUI LAND-PINEAPPLE CO MAUI LAND-PINEAPPLE CO HALEAKALA RANCH CO STATE DIVISION OF PARKS AMFAC PROPERTIES INC PIONEER MILL CO LTO NATL WEATHER SERVICE E MAUI IRR CO LTO E MAUI IRR CO LTO PIONEER MILL CO LTO
HONOLUA FIELO 49 494	A 1914	04	LAHAINA	4	21 01	156 38	125		MZ			
HONOMANU GULCH 341	A 1935	01	MAKAWAO	1	20 47	156 14	6280		MO			
IAO NEEOLE 387.2	2208	03	WAILUKU	3	20 53	156 33	1080				C	
KAAHAPALI AP 453.1	2307	04	LAHAINA	4	20 56	156 42	8	8A	8A			
KAHOMA INTAKE 374	A 2552	04	LAHAINA	4	20 54	156 38	2000		WI			
KAHULUI WSO 398 AP	R 2572	03	WAILUKU	3	20 54	156 26	48	MIO	MIO		C J	
KAILIILI 436	A 2630	01	MAKAWAO	1	20 51	156 16	2520		MO			
KAILUA 446	2679	01	MAKAWAO	1	20 54	156 13	700	7A	7A			
KAUOLA INTAKE 375	A 3433	04	LAHAINA	4	20 53	156 38	1585		WI			
KAUPO RANCH HOUSE 259	3576	02	HANA	2	20 39	156 08	1020				C	KAUPO RANCH HAWAIIAN COM & SUG CO E MAUI IRR CO LTO ALLEN L CORELL HAWAIIAN COM & SUG CO HANA RANCH-KIPAHULU SEC MAUI LAND-PINEAPPLE CO KULA SANATORIUM PIONEER MILL CO LTO PIONEER MILL CO LTO
KEAHUA 410	3910	03	MAKAWAO	3	20 52	156 23	480		5A			
KEANAE 346	A 4091	01	HANA	1	20 50	156 10	980		MO			
KEAWAKAPU BEACH 260.2	4193	02	MAKAWAO	2	20 42	156 27	20	8A	8A		C	
KIHEI 311	4489	03	WAILUKU	3	20 47	156 27	90		7A			
KIPAHULU 258	4634	01	HANA	1	20 39	156 04	260		7A			
KUKUI 380	A 4887	04	LAHAINA	4	20 54	156 35	5788		MZ			
KULA SANATORIUM 267	5006	02	MAKAWAO	2	20 42	156 22	3004	7A	7A			
LAHAINA 361	5177	04	LAHAINA	4	20 53	156 41	45	7A	7A		C	
LAUNIUPOKO INTAKE 376	A 5404	04	LAHAINA	4	20 51	156 37	1280		WI			
LAUNIUPOKO VILLAGE 372A	5408	04	LAHAINA	4	20 51	156 39	220		7A			PIONEER MILL CO LTO E MAUI IRR CO LTO PIONEER MILL CO LTO MAUI LAND-PINEAPPLE CO MAUI LAND-PINEAPPLE CO EAST MAUI IRRIGATION CO PIONEER MILL CO LTO E MAUI IRR CO LTO HAWAIIAN COM & SUG CO KAUPO RANCH CO.
LUPU UPPER 442	A 5665	01	MAKAWAO	1	20 53	156 15	1240		MO			
MAHINAHINA 466	A 5715	04	LAHAINA	4	20 57	156 40	715		7A			
MOKUPEA 475	A 6521	04	LAHAINA	4	20 59	156 37	1290		MZ			
NAKALELE FIELO 60 497	A 6645	04	LAHAINA	4	21 02	156 36	340		VAR			
OLINDA 332	A 7040	01	MAKAWAO	1	20 48	156 17	4127		VAR			
OLOWALU 296.1	7059	04	LAHAINA	4	20 49	156 37	20		7A			
PAKKA 350	7194	01	HANA	1	20 49	156 07	1260		VAR		C	
PAIA 406	7566	01	WAILUKU	1	20 55	156 23	170		6A			
PANILEIHULU 259.2	A 7674	02	HANA	2	20 41	156 08	3570		MO			
PEAHI 488.6	7952	01	MAUI	1	20 54	156 17	830		WI		C	BERNARD RUPLINGER WAILUKU SUGAR CO STATE DIV OF FORESTRY E MAUI IRR CO LTO HAWAIIAN COM & SUG CO EAST MAUI IRRIGATION CO HAWAIIAN COM & SUG CO KAONOULU RANCH UH MAUI AGRI RESCH CNTR HALEAKALA RANCH CO
POHAKEA BRIDGE 307.2	A 8060	03	WAILUKU	3	20 49	156 31	167		6A			
POLIPOLI SPRINGS 267.2A	8070	02	MAKAWAO	2	20 41	156 20	6150	VAR				
PUDOHOKMOA 2 343	A 8336	01	HANA	1	20 50	156 13	2980		MO			
PUUNENE 396	8543	03	WAILUKU	3	20 53	156 27	60		7A			
PUU PAKI 352	A 8553	01	HANA	1	20 46	156 03	2160				S	
SPRECKELSVILLE 400.2	8688	03	WAILUKU	3	20 54	156 25	85		8A			
TWIN GATES 261.3	A 8742	03	MAKAWAO	3	20 46	156 23	1310	VAR				
UH AGRI RES CNTR 324.5	8743	02	MAUI	2	20 46	156 20	3050				C	
UKULELE 333	A 8744	01	MAKAWAO	1	20 48	156 15	5230		MO			
UKUMEHAME 301	A 8750	04	LAHAINA	4	20 48	156 35	75		7A			PIONEER MILL CO LTO ULUPALAKUA RCH CO LTO PIONEER MILL CO LTO WAILUKU SUGAR CO WAILUKU SUGAR CO E MAUI IRR CO LTO EAST MAUI IRRIGATION CO WAILUKU SUGAR CO WAILUKU SUGAR COMPANY
ULUPALAKUA RANCH 250	8760	02	MAKAWAO	2	20 39	156 24	1900		8A		C	
WAHIKULI 364	A 8955	04	LAHAINA	4	20 54	156 40	580		8A			
WAIHEU CAMP 484	A 9275	03	WAILUKU	3	20 55	156 31	320		6A			
WAIHEE VALLEY 482	A 9315	04	WAILUKU	4	20 57	156 32	300		6A			
WAIKAMOI 449	A 9332	01	HANA	1	20 52	156 12	1200		MO			
WAIKAMOI DAM 336	A 9335	01	MAKAWAO	1	20 49	156 14	4320	VAR			C	
WAIKAPU 390	A 9376	03	WAILUKU	3	20 51	156 31	370		6A			
WAILUA IKI 348	A 9460	01	HANA	1	20 48	156 09	2630				S	
WAILUKU 386	A 9484	03	WAILUKU	3	20 54	156 30	180	7A	7A			
WAIOPAI RANCH 256	A 9765	02	HANA	2	20 38	156 12	220		OC			HALEAKALA RANCH CO
ISLAND OF HAWAII												
AHUA UMI 75	A 0040	05	N KONA	5	19 38	155 47	5220		MO			W.H. GREENWELL RANCH NAT HISTORICAL PARK HONOKAA SUGAR CO MAUNA KEA SUGAR CO
CITY OF REFUGE 27.4	0344	04	S KONA	4	19 25	155 55	15		9A			
HAUNA 214	0840	01	HAMAKUA	1	20 06	155 28	461		8A			
HAKALAU 142	0905	02	S HILO	2	19 54	155 08	105		7A			

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								TEMP.	PRECIP.	EVAP.	SPECIAL (SEE NOTES)	
ISLAND OF HAWAII												
HALEMAUMAU 52	A 1033	03	KAU	3	19 24	155 17	3648		MO			HAWAII NAT PARK MAUNA KEA OBSERVATORY RICHARD HA JR HA VOLCANOES NAT PK HQS K L BONO REX WILLS II NATL WEATHER SERVICE STATE OIV OF FORESTRY CAPT COOK CATTLE CO SHIGETO L TANAKA
HALEPOHAKU 111	A 1065	02	HAMAKUA	2	19 46	155 28	9220		3P			
HA'S FARM 85.3	1270	02	HAWAII	2	19 40	155 06	580		8A			
HAWAII VOLCNS NP HQ 54	1303	02	KAU	2	19 26	155 16	3971	8A	8A		C	
HAWI 168	A 1339	01	N KOHALA	1	20 14	155 50	580		6A		C	
HILO COUNTRY CLUB 86.6	1487	02	HAWAII	2	19 41	155 10	1600		7A		C	
HILO W50 AP 87	R 1492	02	S HILO	2	19 43	155 04	36	MIO	MIO		C	
HOLUALOA 70	A 1557	04	N KONA	4	19 38	155 55	3220		MO			
HOLUALOA BEACH 68	A 1562	04	N KONA	4	19 37	155 59	14		7A			
HONAUNAU 27	1665	04	S KONA	4	19 27	155 53	1089		7A			
HONOHINA 137	1701	02	N HILO	2	19 56	155 09	300		7A			MAUNA KEA SUGAR CO MAUNA KEA SUGAR CO STATE OIV OF FORESTRY STATE OIV OF FORESTRY HUEHUE RANCH KAU SUGAR COMPANY, INC CAPT COOK INVESTMENT CO RUSSELL P. SMITH KAHUA RANCH COMPANY KONA EXPERIMENT STA
HONOMU MAUKA 138	1960	02	S HILO	2	19 51	155 09	1100		7A		C	
HONUAULA 71	A 2047	04	N KONA	4	19 40	155 53	6250		MO			
HUALALAI 72	A 2151	04	N KONA	4	19 42	155 52	8190		MO			
HUEHUE 92.1	A 2156	04	N KONA	4	19 45	155 59	1960		6A			
KAAALA IKI 12	A 2249	03	KAU	3	19 08	155 34	1340		WI			
KAAHALOA 29	A 2327	04	SOUTH KONA	4	19 30	155 55	1340		8A			
KAHIAWAI MAUKA 3.8	2512	03	KAU	3	19 08	155 46	4120				C	
KAHUA RANCH HQTRS	2600	01	HAWAII	1	20 08	155 48	3240				C	
KAINALIU 73.2	2751	04	N KONA	4	19 32	155 56	1500	7A	7A			
KALAOA 69.22	2887	04	HAWAII	4	19 44	155 59	2000		8A			FLOYD W MC COY HAWAII VOLCANOES NAT PK PARKER RCH-KAPAPALA OIV PARKER RANCH PARKER RCH-KAPAPALA OIV H E MC NICHOLS DEPT OF PUBLIC WORKS HONOKAA SUGAR CO PUNA SUGAR CO KAU SUGAR COMPANY, INC
KALAPANA 1 67.8	2894	02	S HILO	2	19 20	155 02	10		VAR			
KAMAOA 2 5	A 3048	03	KAU	3	19 02	155 40	1375		WI			
KAMUELA 192.2	3077	01	S KOHALA	1	20 01	155 40	2670	6A	6A			
KAPAPALA RANCH 36	A 3300	03	KAU	3	19 17	155 27	2140		6A			
KAPOHO BEACH 93.11	3368	02	HAWAII	1	19 30	154 49	10	8A	8A			
KAPOHO LANDING 93.5	A 3369	02	PUNA	2	19 30	154 52	290		VAR			
KAWAINUI LOWER 193	A 3770	01	HAMAKUA	1	20 05	155 39	1080		WI			
KEARU 92	3872	02	PUNA	2	19 38	155 02	285	8A	8A			
KEAIIWA CAMP 22.1	3925	03	KAU	3	19 14	155 29	1700				C	
KEALAKEKUA 26.2	3977	04	S KONA	4	19 30	155 55	1450				C	HERBERT KANE STATE OIV OF FORESTRY STATE OIV OF FORESTRY MAUNA KEA SUGAR CO. K. LYMAN BOND HONOKAA SUGAR CO CHEVRON USA KONA VILLAGE RESORT HTL LAUPAHOEHOE SUGAR CO HONOKAA SUGAR CO
KEANAKOLU CAMP 124.2	4098	02	HAMAKUA	2	19 55	155 21	5280				C	
KIOLAKAA A & F 6	A 4625	03	KAU	3	19 04	155 38	1925		MO			
KIPA 89.2	A 4632	02	S HILO	2	19 44	155 09	1490		WI			
KOHALA MISSION 175.1	4680	01	N KOHALA	1	20 14	155 48	537	7A	7A			
KOIAWE LOWER 196	A 4685	01	HAMAKUA	1	20 05	155 38	720		WI			
KONA (KAILUA) 68.3	A 4764	04	N KONA	4	19 39	156 00	30	8A	8A		C	
KONA VILLAGE 93.8	4765	04	N KONA	4	19 50	155 59	20		8A			
KUKAIAU 222	4815	01	HAMAKUA	1	20 02	155 21	840		6A			
KUKUIHAELE HIC 199	4928	01	HAMAKUA	1	20 07	155 35	980		6A			
KUKUIHAELE MILL 206	A 4938	01	HAMAKUM	1	20 08	155 34	300		6A			HONOKAA SUGAR CO ST DEPT OF SOCIAL SER MAUNA LOA OBS. ST DEPT OF SOCIAL SER STATE DEPT OF L&N RES KONA EXPERIMENT STATION STATE OIV OF PARKS PARKER RANCH STATE DIVISION OF PARKS MAUNA KEA OBSERVATORY
KULANI CAMP 79	5011	02	S HILO	2	19 33	155 18	5170	8A	8A			
KULANI MAUKA 76	A 5018	05	N HILO	5	19 35	155 27	8300		WI			
KULANI SCHOOL SITE 78	A 5021	02	S HILO	2	19 35	155 20	5735		WI			
LALAMILO FLO OFF 191.1	5260	01	S KOHALA	1	20 01	155 41	2615				C	
LANIHAU 68.2	5330	04	N KONA	4	19 40	155 58	1530		7A			
LAVA TREE PARK 66.1	5460	02	PUNA	2	19 29	154 54	650				C	
MAKAHALAU 103	5761	02	HAWAII	1	19 59	155 33	3820		6A			
MAUKA 2	A 6134	03	KAU	3	19 07	155 50	1760		WI			
MAUNA KEA OBS 111.2	6183	02	HAWAII	2	19 49	155 28	3770		7P			
MAUNA LOA SLOPE OBS	6198	05	HAMAKUA	5	19 32	155 35	1150	MIO	MIO			MAUNA LOA OBSERVATORY CAPT COOK CATTLE CO KAHUA RANCH PARKER RCH-KAPAPALA OIV PUNA SUGAR CO KAU SUGAR COMPANY KONA EXPERIMENT STA LAUPAHOEHOE SUGAR CO MRS LORMA TRUMAN BOARD OF WATER SUPPLY
MIDDLE HOLUALOA 68.1	A 6268	04	N KONA	4	19 37	155 58	500		7A			
MIDDLE PEN 147.1	A 6270	01	N KOHALA	1	20 06	155 50	1380		VAR			
MORULA 18	A 6407	03	KAU	3	19 11	155 30	600					
MOUNTAIN VIEW 91	6552	02	PUNA	2	19 33	155 07	1530	6A	6A			
NAALEHU 14	A 6588	03	KAU	3	19 04	155 35	800	8A	8A			
NAPOOPOO 28	A 6697	04	S KONA	4	19 28	155 55	395		7A			
OOKALA 223	7131	02	N HILO	2	20 01	155 17	430	7A	7A			
OPIHIHALE 2 24.1	7166	04	S KONA	4	19 16	155 53	1270	7A	7A			
ORCHIO LAND EST 91.5	A 7185	02	PUNA	2	19 34	155 00	445		VAR			
PAAUHAU 217	7204	01	HAMAKUA	1	20 05	155 26	415		8A		C	HONOKAA SUGAR COMPANY LAUPAHOEHOE SUGAR CO KAU SUGAR COMPANY, INC PUNA SUGAR COMPANY PARKER RCH-KAPAPALA OIV MAUNA KEA SUGAR CO MAUNA KEA SUGAR CO
PAAUILO 221	7312	01	HAMAKUA	1	20 03	155 22	800		7A			
PAHALA 21	A 7421	03	KAU	3	19 12	155 29	870	8A	6A			
PAHOA 65	7457	02	PUNA	2	19 30	154 57	670		6A			
PAKAO 37	A 7643	03	KAU	3	19 22	155 28	5000		MO			
PAPAIKOU 144.1	7711	02	S HILO	2	19 47	155 06	260		7A			
PAPAIKOU MAUKA 140.1	7721	02	S HILO	2	19 47	155 08	1270		7A			

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								TEMP.	PRECIP.	EVAP.	SPECIAL (SEE NOTES)	
ISLAND OF HAWAII												
PIIHONUA 89	A 8051	02	5 HILO	2	19 44	155 10	1730		MO			STATE DIV OF FORESTRY STATE DIVISION OF PARKS SUPT PUU HEIAU-NHS W.H. GREENWELL RANCH PUU WAAWAA RANCH CO BOARD OF WTR SUPPLY MRS CAROLYN CARLSON PARKER RCH-KAPAPALA DIV U S COAST GUARD SHINICHI KANESHIRO  BOISE CASCADES WA CONST
POHAKULO 107	A 8063	02	HAMAKUA	2	19 45	155 32	6511		WI		C	
PUUKOHOLA HEIAU 98.1	8422	05	HAWAII	5	20 02	155 50	140	8A	8A			
PUU LEHUA 73	A 8460	04	N KONA	4	19 34	155 49	4880		MO			
PUU WAAWAA 94.1	A 8555	05	N KONA	5	19 47	155 51	2520		7A		C	
SAOOLE ROAD 1 84	A 8590	02	5 HILO	2	19 42	155 12	2340		WM			
SOUTH KONA 2-31	8650	03	HAWAII	3	19 06	155 45	2650	8A	8A			
SOUTH POINT CORRAL 3	A 8675	03	KAU	3	18 57	155 41	500		WI			
UPOLU POINT USCG 159.2	8830	01	N KOHALA	1	20 15	155 53	61	8A	2P			
WAIKAKA 500 88.2	9025	02	5 HILO	2	19 40	155 08	1050		7A			
WAIKALOA-8015 CAS 95.8	9142	04	HAWAII	5	19 56	155 48	900		8A			

SEE REFERENCE NOTES FOLLOWING STATION INDEX



## STATION INDEX

HAWAII AND PACIFIC  
OCTOBER 1977

STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES				OBSERVER
								TEMP.	PRECIP.	EVAP.	SPECIAL (SEE NOTES)	
PACIFIC												
EAST OF 180TH MERIDIAN												
ATU'U	4060	03	TUTUILA		14 16S	170 41W	26S		4P			MARIST BROTHERS
CANTON ISLAND	4101	02	PHOENIX IS		2 46N	171 43W	8	9A	9A			ITT/FEDERAL ELEC CORP
FAGA ALU RESERVOIR	4135	03	AMER SAMOA		14 18S	170 42W	820		8A			PUBLIC WORKS
FALEASAO VILLAGE	4248	03	TA'U'AMAN		14 14S	169 31W	16		8A			SOLOMULI MALU'IA
JOHNSTON IS WSO AP	R 4320	01	LINE ISLANDS		16 44N	169 31W	10	M10	M10	SP	J	NATL WEATHER SERVICE
LEONE	4397	03	TUTUILA		14 21S	170 47W	20	6P	6P			ST THERESA SCHOOL
FRENCH FRIGATE SHOALS	4401	07			23 52N	166 17W	6	8P	8A			U S COAST GUARD
MIDWAY SANO ISLAND	4490	07			28 13N	177 21W	10	M10	M10			U S NAVY
PAGO PAGO WSO AP	R 4690	03	AMER SAMOA		14 20S	170 43W	12	M10	M10		J	NATL WEATHER SERVICE
WESTERN PACIFIC ISL. NORTH OF 12 N												
ANDERSEN AF8 GUAM	\$3 4025	03	MARIANNA IS		13 35N	144 55E	624	M10	M10			AIR WEATHER SERVICE
CLARK AF8 LUZON	\$3 4100	06	PHILIPPINE I		15 11N	120 33E	475	M10	M10			U S AIR FORCE
GUAM NAS	# 4226	03	MARIANNA IS		13 29N	144 48E	254	M10	M10			U S NAVY
GUAM WSMO	R 4229	03	MARIANNA IS		13 33N	144 50E	361	10A	10A	6P	J	NATL WEATHER SERVICE
MANGILAO	4468	03	GUAM		13 27N	144 49E	60		7A			GUAM AGRICULTURAL STA
ROTA	4800	03	MARIANNA IS		14 08N	145 09E	47		8A			OIST ADMINISTRATOR
SAIPAN LORAN	4860	03	MARIANNA IS		15 08N	145 42E	9	10A	10A			U S C G LORAN STATION
WAKE ISLAND WSO AP	R 4901	01	WAKE ISLAND		19 17N	166 39E	12	M10	M10		J	NATL WEATHER SERVICE
CAROLINE AND MARSHALL ISLANDS												
ANGUAR	4030	02	CAROLINE IS		6 55N	134 09E	15		8A			USCG LORAN STATION
ENIWETAK	4165	01	MARSHALL IS.		11 21N	162 21E	10	M10	M10			U S COAST GUARD
FALALOP I. ULITHI	4185	02	CAROLINE IS		10 02N	139 48E	6	9A	9A			PRINCIPAL-ULITHI H-SCH
KAPINGAMARANGI ATOLL	4325	01	PONAPE		1 05N	154 48E	10	M10	M10			ERSIN HAQUET
KOROR WSO	R 4351	02	CAROLINE IS		7 20N	134 29E	94	M10	M10		J	NATL WEATHER SERVICE
KWAJALEIN MISSILE RGN	R 4375	01	MARSHALL IS		8 44N	167 44E	7	12M	12M		J	KMR WEATHER SERVICE
LELE I. KUSAIE	4395	02	CAROLINE IS		5 20N	163 02E	7	M10	M10			JULIAN E ROBERT
MAJURO WSO AP	R 4460	02	MARSHALL IS		7 05N	171 23E	10	M10	M10		J	NATL WEATHER SERVICE
METALANIM	4482	02	PONAPE		6 51N	158 19E	30	6P	6P			REV E. A. SOUCIE
MOKIL ATOLL	4490	02	PONAPE DIST.		6 41N	159 47E	27		SP			ESHAM BEN
NGASANG.8ABELTHUAP	4580	01	PALAU ISLAND		7 38N	134 39E	10		8A			BETHANIA SEMINARY
PONAPE WSO	R 4751	02	CAROLINE IS		6 58N	158 13E	123	M10	M10		J	NATL WEATHER SERVICE
SATAWAN ATOLL	4814	02	CAROLINE IS		5 20N	153 44E	9	M10	M10			ANTER EKO
TRUK. MOEN I. WSO AP	R 4851	02	CAROLINE IS		7 28N	151 51E	5	M10	M10		J	NATL WEATHER SERVICE
WOLEAI ATOLL	4911	01	CAROLINE IS		7 23N	143 55E	7	M10	M10			HASUGULIMAR/HALEYEMAI
YAP WSO AP	R 4951	02	CAROLINE IS		9 29N	138 05E	44	M10	M10		J	NATL WEATHER SERVICE
NEW STATIONS												
EAST OF 180TH MERIDIAN												
ATU'U	4060	03	TUTUILA		14 16S	170 41W	26S		4P			MARIST BROTHERS

SEE REFERENCE NOTES FOLLOWING STATION INDEX

Additional information regarding the climates of Hawaii and the Pacific Ocean Area may be obtained by writing to the National Climatic Center, Federal Building, Asheville, N.C. 28801, or to any National Weather Service Office near you. Additional precipitation data for Hawaii are contained in "HOURLY PRECIPITATION DATA HAWAII."

DIMENSIONAL UNITS: Unless otherwise indicated, dimensional units used in this bulletin are: Temperature in °F., precipitation and evaporation in inches, and wind movement in miles. In "Supplemental Data" table directions entered in figures are tens of degrees. Resultant wind is the vector sum of wind directions and speeds divided by the number of observations.

OBSERVATION TIME: Data in the "Monthly Extremes," "Daily Precipitation" table, "Daily Temperature" table, and "Evaporation and Wind" table are for the 24 hours ending at time of observation unless indicated otherwise by reference letters in the Station Index. The Station Index shows observation time in local standard time.

EVAPORATION is measured in the standard Weather Service-type pan of 4-foot diameter unless otherwise noted below in the Evaporation and Wind table. Max and Min values in the Evaporation and Wind table are extremes of temperature of water in pan as recorded during 24 hours ending at time of observation. Wind is the total wind movement in miles over the evaporation pan as determined by a continuous anemometer recorder located 6-8 inches above the pan.

NORMALS for all stations are climatological standard normals based on the period 1941-1970.

STATION NAMES: Hawaii state key numbers are included following station names in the several tables.

LATE REPORTS AND CORRECTIONS will be carried only in the June and December issues of this bulletin.

INTERPOLATED VALUES for monthly precipitation totals may be found in the annual issue of this publication.

IN THE DATA TABLES THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING:

- No record in the "Supplemental Data" table, "Daily Precipitation" table, "Evaporation and Wind" table, and the Station Index.
- No record in the "Monthly Summarized Data" table and the "Daily Temperature" table is indicated by no entry.
- + And also on an earlier date or dates.
- ++ Highest observed one minute windspeed. This station is not equipped with an instrument to measure fastest mile data.
- \* Amount included in following measurement, time distribution unknown.
- ‡ Extreme occurred at station with incomplete data which may have been exceeded.
- A The letter "A" shown following station name in "Monthly Summarized Data" table, "Daily Precipitation" table, and "Station Index," indicates amount carried in the "Total" column is for the period from last measurement of a preceding month through the last measurement of the current month. See "Daily Precipitation" table of this and previous bulletins for dates of measurement. Where gages are read only once monthly, measurements made on the first of a month are credited to the last day of the preceding month.
- B Adjusted to a full month.
- M One or more days of record missing; if average value is entered, less than 10 days record is missing. See "Daily Temperature" table for detailed daily record.
- R Amounts from recording gage.
- T Trace, an amount too small to measure.
- V Includes total for previous month.

IN THE STATION INDEX THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING:

- AR Observation made after rain.
- C In Special Column of Station Index indicates Recording Rain Gage Station. Hourly Precipitation values are processed for special purposes, and are published later in the "Hourly Precipitation Data" bulletin. If daily amounts are published in "Monthly Summarized Data" bulletin they are from a separate non-recording gage, except where indicated by reference 'R'. Such amounts may differ from amounts published from the recording gage in the "Hourly Precipitation Data" bulletin.
- J "Supplemental Data" table.
- MO Gage read once monthly; usually on the last day.
- OC Gage readings at periods varying from a few weeks to several months.
- S Storage precipitation station. Precipitation measurements, made at irregular intervals, are published in the annual issue of this publication, beginning with the 1977 data. Prior data are found in the "Storage-Gage Precipitation Data" Bulletin, which was discontinued with the 1976 issue.
- SS Observation time is near sunset.
- VAR Observation time is variable.
- W1 Gage read weekly or irregularly only.
- WM Gage read weekly and last day of month.
- # Thermometers are generally exposed in a shelter located a few feet above sod-covered ground; however, this reference indicates that the thermometers are exposed in a shelter located on the roof of a building.
- 53 Maximum and minimum temperatures are the highest and lowest hourly readings for each day.
- + DRAINAGE CODE: KAUAI: 1-NORTHERN 2-SOUTHEASTERN 3-SOUTHWESTERN OAHU: 1-WINDWARD KOOLAU 2-HONOLULU 3-SOUTH CENTRAL 4-WESTERN 5-NORTH CENTRAL MOLOKAI: 1-(NO INTRA-ISLAND DIVISIONS) LANAI: 1-(NO INTRA-ISLAND DIVISIONS) MAUI: 1-NORTHEASTERN 2-SOUTHERN 3-CENTRAL 4-WESTERN HAWAII: 1-NORTHERN 2-EASTERN 3-SOUTHERN 4-WESTERN 5-CENTRAL

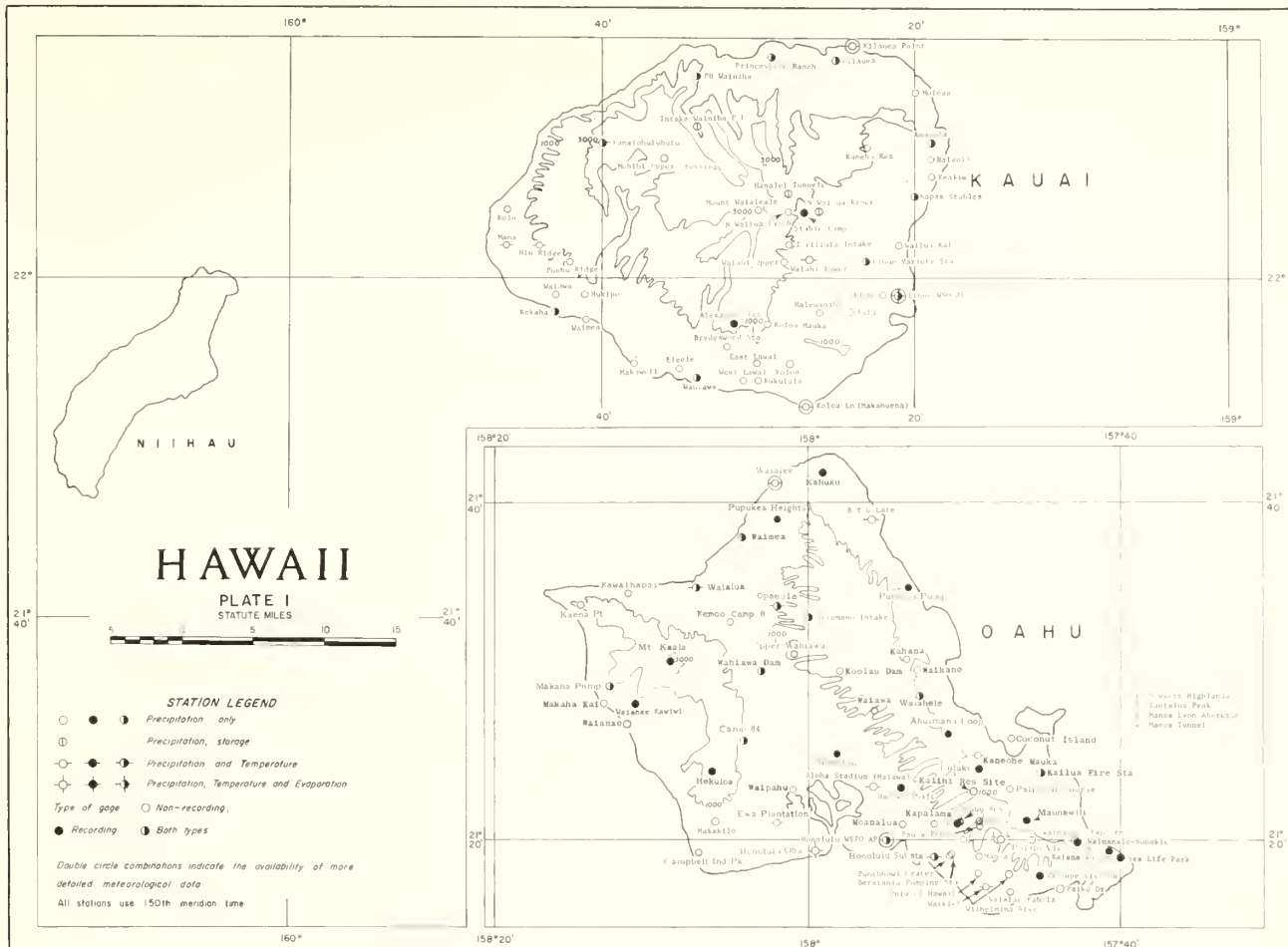
Stations appearing in the tables with no data were either missing or received too late to be included in this issue.

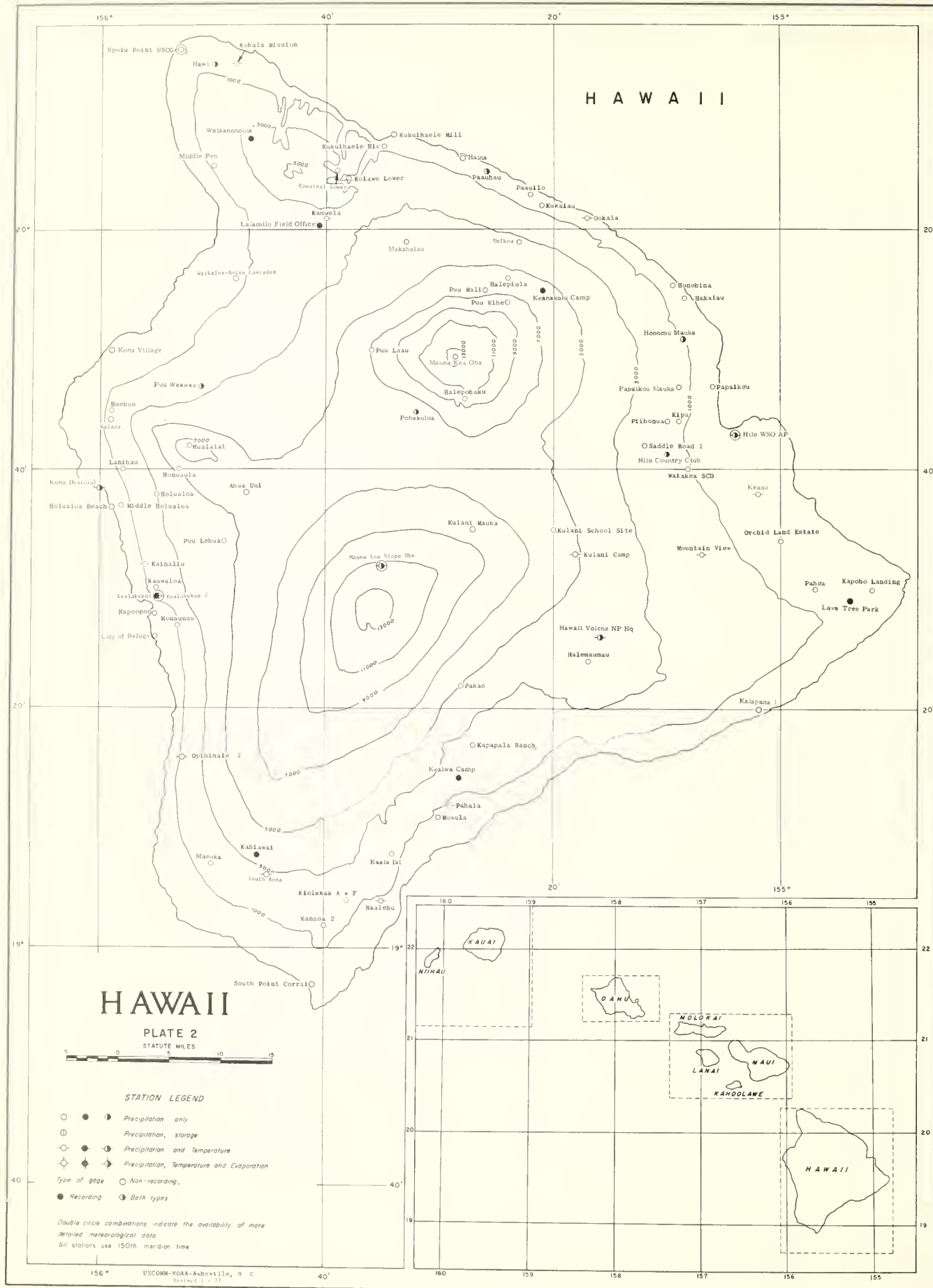
The Pacific includes stations in the Trust Territory of the Pacific Islands, Territory of Guam, American Samoa, and other scattered islands and atolls.

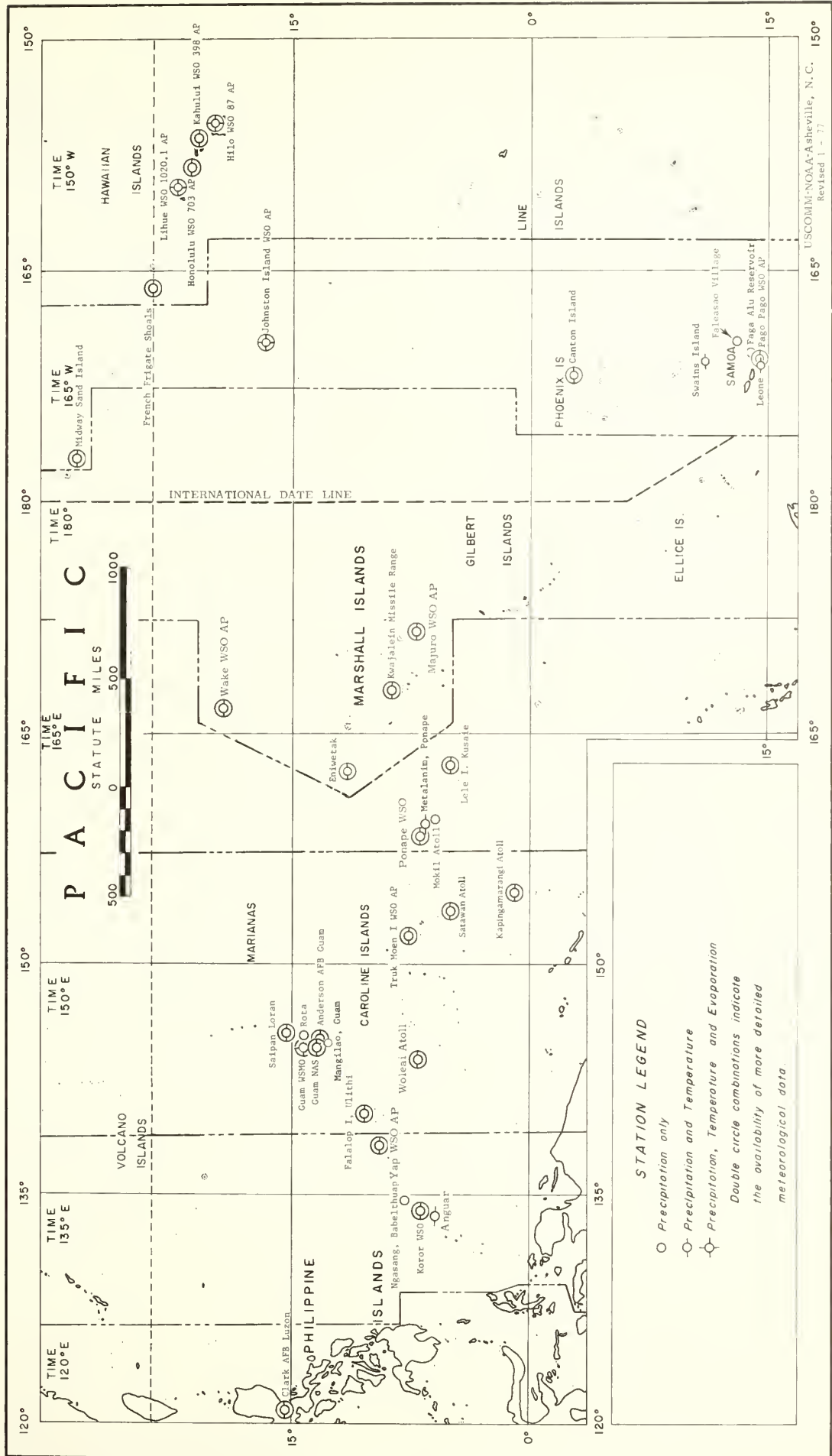
General weather conditions in the U.S. for each month are described in the CLIMATOLOGICAL DATA NATIONAL SUMMARY and STORM DATA.

Information concerning the history of changes in locations, elevations, exposure, etc., of substations through 1957 may be found in the publication "Substation History" for this State, price 40 cents. Similar information for regular National Weather Service Offices may be found in the latest annual issue of Local Climatological Data, price 20 cents. These publications may be obtained from the National Climatic Center at the address shown above.

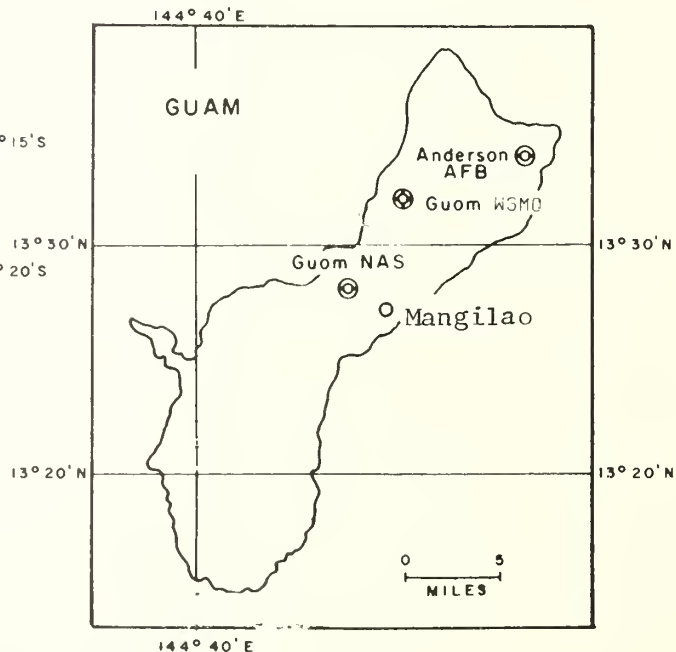
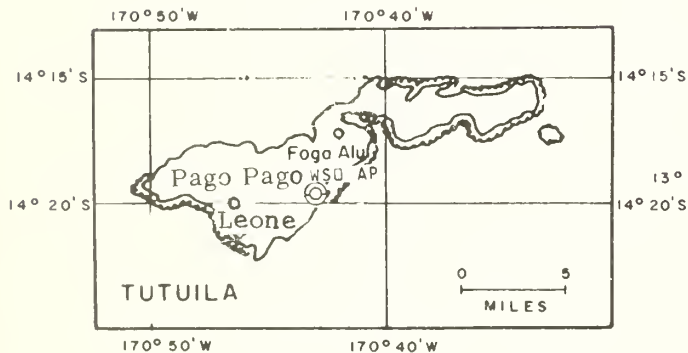
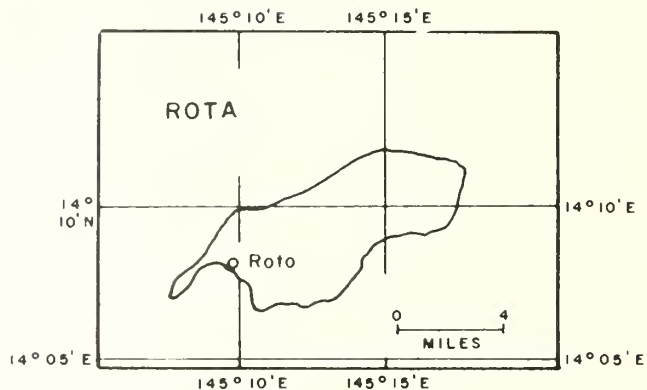
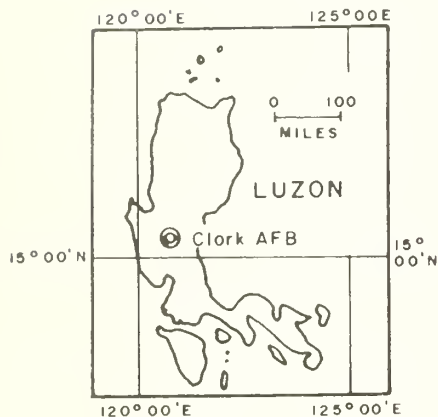
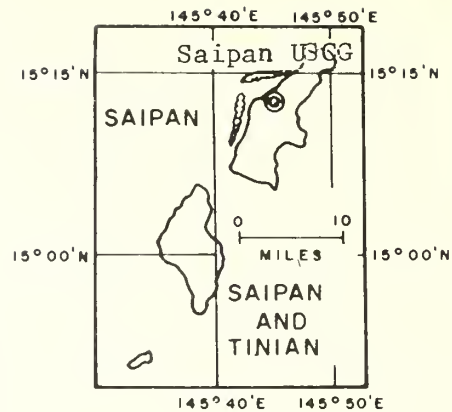
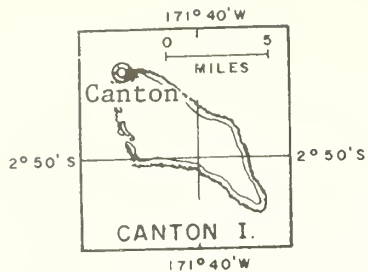
Subscription Price: \$5.10 a year for each section including annual summary; \$5.55 additional for foreign mailing; 40¢ single copy; 30¢ annual summary. Make checks payable to Department of Commerce, NOAA; send payments and orders to: National Climatic Center, Federal Building, Asheville, N. C. 28801. Attn: Publications.



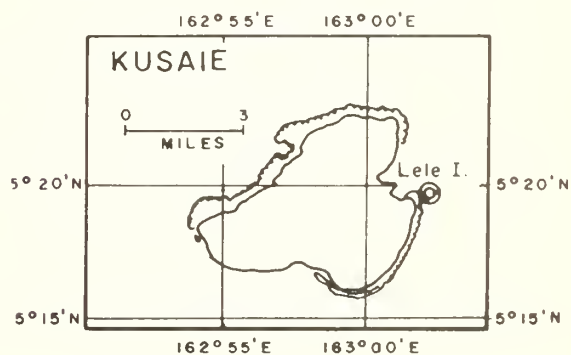
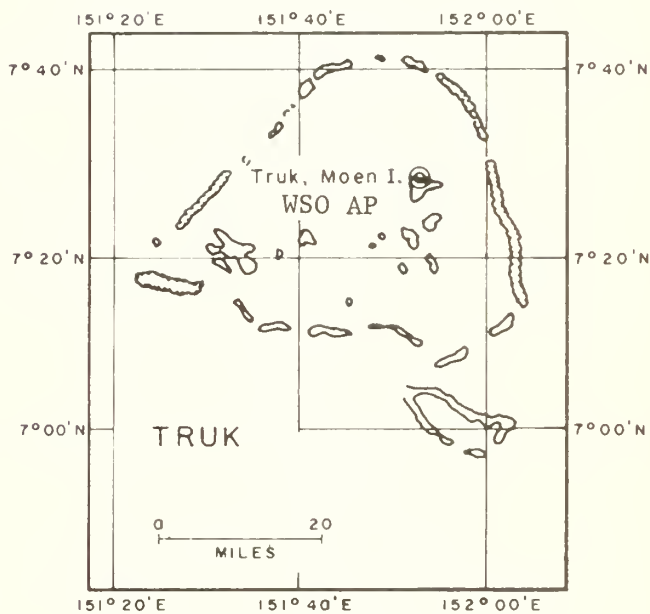
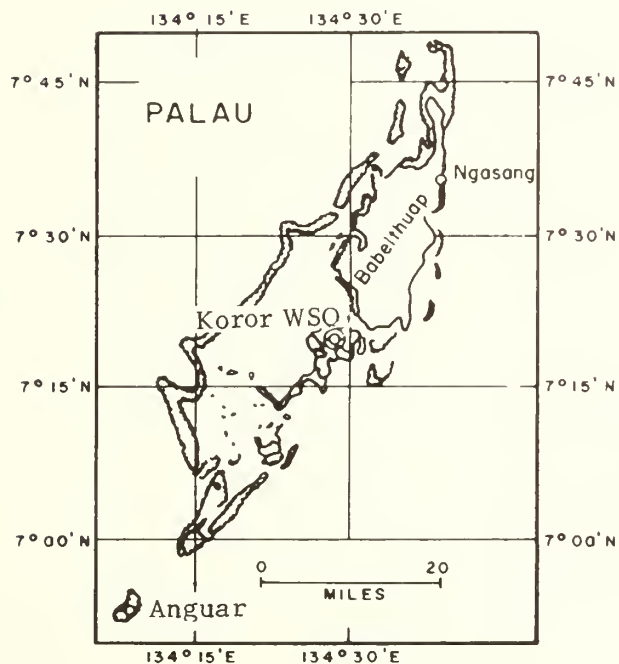
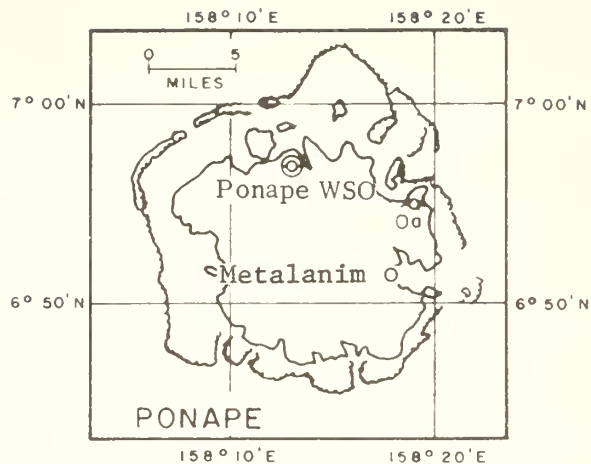
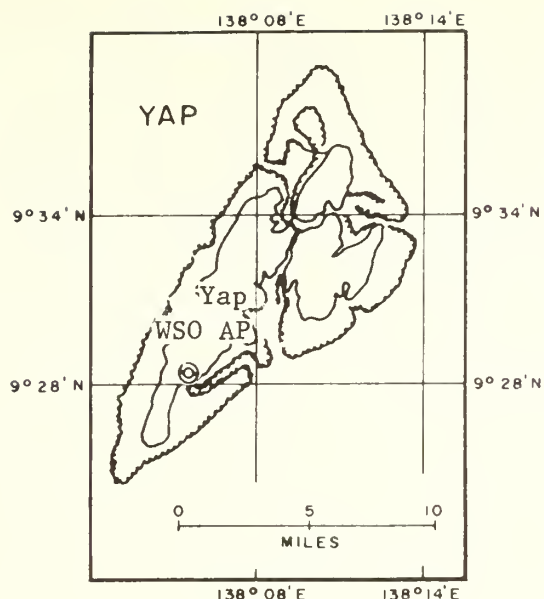




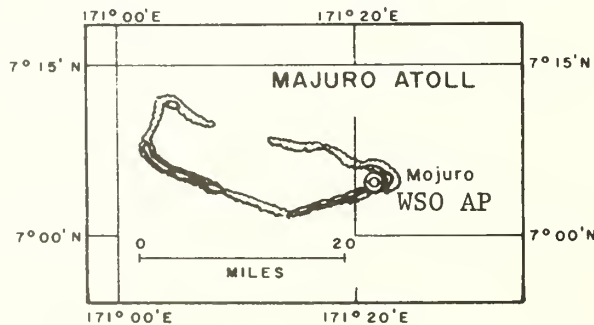
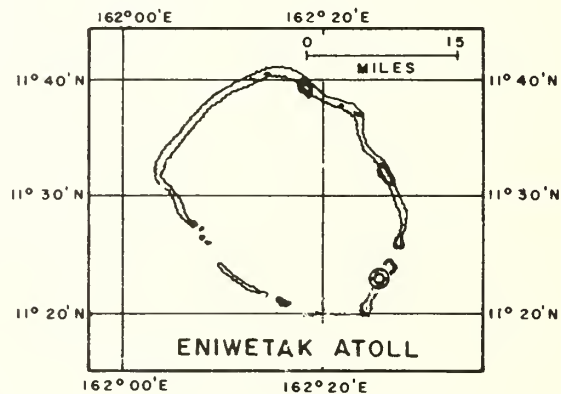
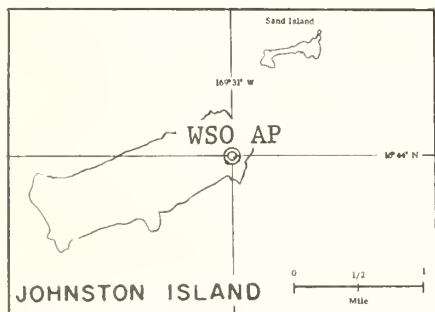
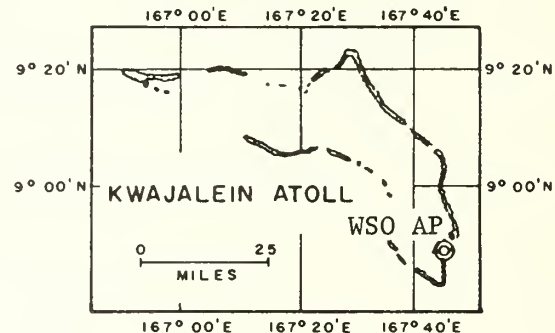
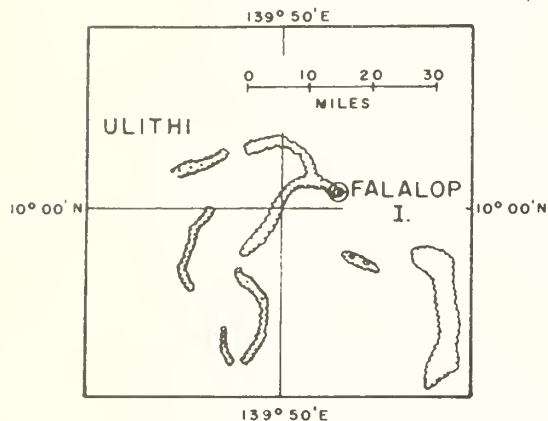
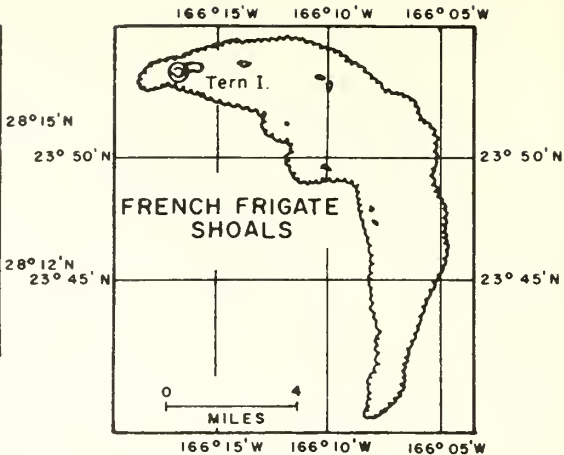
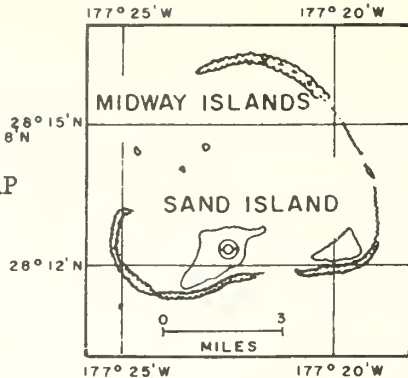
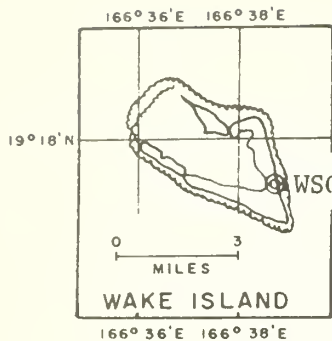




Reef



— Reef





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# Climatological Data



## HAWAII AND PACIFIC

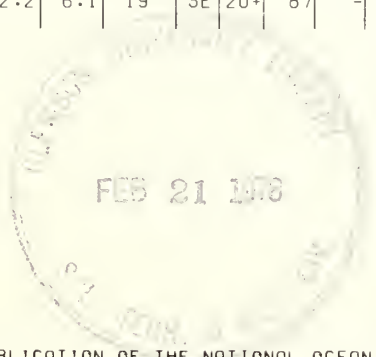
### TEMPERATURE AND PRECIPITATION EXTREMES

HAWAIIAN STATIONS ONLY

HIGHEST TEMPERATURE:	PUUKOHOLA HEIAU 98.1	HAWAII	92	DATE	03
LOWEST TEMPERATURE:	MAUNA LOA SLOPE OBS	HAWAII	32	DATE	16+
GREATEST TOTAL PRECIPITATION:	MOUNT WAIALEALE 1047	KAUAI	23.78		
LEAST TOTAL PRECIPITATION:	7 STATIONS		.00		
GREATEST 1 DAY PRECIPITATION:	PAHOA 65	HAWAII	4.47	DATE	16

### SUPPLEMENTAL DATA

	WIND (SPEED - M.P.H.)						RELATIVE HUMIDITY AVERAGES- PERCENT				NUMBER OF DAYS WITH PRECIPITATION								PERCENT OF POSSIBLE SUNSHINE AVERAGE (TENTHS)	SKY COVER SUNRISE TO SUNSET
	RESULTANT DIRECTION	RESULTANT SPEED	AVERAGE	FASTEST MILE	DIRECTION OF FASTEST MILE	DATE OF FASTEST MILE	STANDARD OF TIME GREENWICH CIVIL				TRACE	.01-.09	.10-.49	.50-.99	1.00-1.99	2.00 AND OVER	TOTAL			
							12	18	00	06										
GUAM WSMO	-	-	-	25	E	23	-	81	82	91	1	8	10	3	1	1	24	48	7.6	
HILO WSO 87 AP	18	2.0	6.4	19	E	27	88	77	70	87	6	5	6	3	2	1	23	54	5.0	
HONOLULU WSO 703 AP	7	6.6	10.0	29	E	04	78	75	57	71	8	6	1	0	0	0	15	72	5.0	
JOHNSTON WSO AP	11	14.1	15.3	37	E	09	82	82	76	81	6	4	3	1	1	3	18	65	5.9	
KAHULUI WSO 398 AP	6	6.9	9.5	31	E	06+	74	71	57	65	1	3	1	0	0	0	5	81	3.0	
KOROR WSO	29	0.5	6.3	25	SW	12	88	-	78	76	1	5	11	3	2	0	22	61	8.1	
KWAJALEIN MISSILE RGN	7	8.8	10.3	26++	9	27	82	82	76	78	6	6	7	4	1	1	25	-	8.1	
LIHUE WSO 1020.1 AP	7	5.5	10.8	25	E	03	77	75	62	73	6	7	7	1	0	0	21	54	5.7	
MAJURO WSO AP	7	5.5	7.6	27	E	25	81	85	77	78	3	6	8	2	4	1	24	67	9.1	
PAGO PAGO WSO AP	12	11.9	13.3	32	E	24	84	80	76	80	5	7	5	1	2	3	23	-	8.2	
PONAPE WSO	-	-	-	21	E	29	92	-	80	80	2	6	9	4	6	1	28	43	9.1	
TRUK,MOEN I. WSO AP	5	3.5	9.7	26	N	30+	85	-	81	80	2	4	14	3	3	1	27	41	9.9	
WAKE ISLAND WSO AP	6	18.2	18.8	35	E	10	82	84	72	79	5	10	3	1	1	0	20	69	4.3	
YAP WSO AP	8	2.2	6.1	19	SE	20+	87	-	78	76	2	9	7	4	2	1	25	51	8.1	



I CERTIFY THAT THIS IS AN OFFICIAL PUBLICATION OF THE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION AND IS COMPILED FROM RECORDS ON FILE AT THE NATIONAL CLIMATIC CENTER, ASHEVILLE, NORTH CAROLINA 28801.

*Daniel B. Mitchell* DIRECTOR  
NATIONAL CLIMATIC CENTER

## MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

HAWAII AND PACIFIC  
NOVEMBER 1977

STATION		TEMPERATURE										PRECIPITATION																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
		AVERAGE MAXIMUM	AVERAGE MINIMUM	AVERAGE	DEPARTURE FROM NORMAL	HIGHEST	DATE	LOWEST	DATE	DEGREE DAYS	NO. OF DAYS				TOTAL	DEPARTURE FROM NORMAL	GREATEST DAY	DATE	SNOW, SLEET			NO. OF DAYS																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
											NO. OF ABOVE FREEZING	32° OR BELOW	32° OR BELOW	32° OR BELOW					TOTAL	TOTAL	DATE	TOTAL	MAX. DEPTH ON GROUND	DATE	-10 OR MORE	-50 OR MORE	1.00 OR MORE																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
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SEE REFERENCE NOTES FOLLOWING STATION INDEX

# MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

HAWAII AND PACIFIC  
NOVEMBER 1977

STATION		TEMPERATURE										PRECIPITATION												
		AVERAGE MAXIMUM	AVERAGE MINIMUM	AVERAGE	DEPARTURE FROM NORMAL	HIGHEST	DATE	LOWEST	DATE	DEGREE DAYS	NO. OF DAYS				TOTAL	DEPARTURE FROM NORMAL	GREATEST DAY	DATE	SNOW, SLEET			NO. OF DAYS		
											MAX.		MIN.						TOTAL	MAX. DEPTH ON GROUND	DATE	.10 OR MORE	.50 OR MORE	1.00 OR MORE
											30° OR ABOVE	32° OR BELOW	32° OR ABOVE	32° OR BELOW										
HAWAII																								
KONA (KAILUA) 68.3	A	M	M	M		89	28	67	22+		0	0	0	0	.58		.55	18	.0	0		1	1	0
KUKUIHAELE HIC 199						75	19	36	27		0	0	0	0	2.00	- 4.50	.42	4+	.0	0		7	0	0
KULANI CAMP 79		65.5M	48.4M	57.0M		89	7	60	21		0	0	0	0	3.01		1.20	15	.0	0		7	1	0
PAHALA 21	A	82.5M	63.2M	72.9M	1.0						0	0	0	0	1.05		.62	16	.0	0		3	1	0
POHAKULOA 107	A														.00		.00		.0	0		0	0	0
PUUKOHOLA HEIAU 98.1		86.4M	67.9M	77.2M		92	3	61	21		6	0	0	0	.02		.02	17	.0	0		0	0	0
PUU WAHAA 94.1	A														.62		.50	30	.0	0		2	1	0
SOUTH KONA 2.31		77.7	57.9	67.8		81	26+	54	22+		0	0	0	0	.54		.51	16	.0	0		1	1	0
WAIPIKEA SCO 88.2															11.37		2.27	16	.0	0		13	8	5
ISLAND				70.3											2.86				.0					

SEE REFERENCE NOTES FOLLOWING STATION INDEX

## MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

HAWAII AND PACIFIC  
NOVEMBER 1977

STATION	TEMPERATURE										PRECIPITATION													
	AVERAGE MAXIMUM	AVERAGE MINIMUM	AVERAGE	DEPARTURE FROM NORMAL	HIGHEST	DATE	LOWEST	DATE	DEGREE DAYS	NO. OF DAYS				TOTAL	DEPARTURE FROM NORMAL	GREATEST DAY	DATE	SNOW, SLEET			NO. OF DAYS			
										MAX.		MIN.						TOTAL	MAX. DEPTH ON GROUND	DATE	.10 OR MORE	.50 OR MORE	1.00 OR MORE	
										30° OR ABOVE	32° OR BELOW	34° OR BELOW	36° OR BELOW											
PACIFIC																								
* * *																								
EAST OF 180TH																								
MERIDIAN																								
ATU'U																								
CANTON ISLAND	90.6M	80.9M	85.8M		92	28+	77	8			0	0	0	15.66		4.62	22		0		17	10	4	
FAGA ALU RESERVOIR														1.05		.58	29		0		1	0		
FALEASO VILLAGE														26.76		4.59	12		0		14	13	11	
JOHNSTON IS WSO AP	R	82.3	76.7	79.5	.2	84	21+	71	9		0	0	0	0	13.12	10.82	4.43	9		0		8	5	4
LEONE		87.7	80.1	83.9		90	12+	77	22		4	0	0	0	15.18		6.98	22		0		16	6	4
FRENCH FRIGATE SHOALS		81.3	71.0	76.2	.3	87	8	66	25+		0	0	0	0	7.96	4.46	2.35	9		0		12	6	1
MIDWAY SAND ISLAND		74.1	65.6	69.9	- 2.0	80	13+	55	29		0	0	0	0	4.87	.92	2.20	3		0		10	1	1
PAGO PAGO WSO AP	R	84.8	76.8	80.8	.9	87	25+	73	4		0	0	0	0	14.81	4.50	5.18	22		0		11	6	5
* * *																								
WESTERN PACIFIC ISL.																								
NORTH OF 12 N																								
ANDERSEN AFB GUAM		83.1	77.3	80.2	-.1	85	5	74	23+		0	0	0	0	10.77	2.81	2.55	8		0		12	5	4
CLARK AFB LUZON		86.7	72.8	79.8	.4	91	13+	68	13		7	0	0	0	14.30	10.83	11.68	14		0		3	2	2
GUAM NAS																								
GUAM WSO	R	85.0	73.4	79.2	.0	88	2	70	27+		0	0	0	0	12.38	3.87	6.07	8		0		15	5	2
HANGILAO														10.84		3.95	8		0		15	6	2	
ROTA														8.10					0					
SAIPAN LORAN																								
WAKE ISLAND WSO AP	R	84.6	75.3	80.0	-.4	87	6+	71	9		0	0	0	0	2.83	-.19	1.49	9		0		5	2	1
* * *																								
CAROLINE AND																								
MARSHALL ISLANDS																								
ANGUAR														10.56	.62	2.31	9		0		15	7	4	
ENIWETAK																								
FALALOP I. ULITHI																								
KAPINGAMARANGI ATOLL																								
KOROR WSO	R	89.4	76.6	83.0	1.1	91	26+	75	25+		17	0	0	0	7.38	- 3.29	1.18	5		0		16	5	2
KWAJALEIN MISSILE RGN	R	87.0	78.3	82.7	1.0	89	13	74	1		0	0	0	0	8.76	- 2.70	2.21	26		0		13	6	2
LELE I. KUSAIE		89.6	74.2	81.9	.5	92	20	69	7		16	0	0	0	10.08	- 6.46	2.47	5		0		16	8	3
MAJURO WSO AP	R	86.8	75.5	81.2	.0	89	15+	74	28+		0	0	0	0	11.85	- 3.53	2.26	12		0		15	7	5
METALANIM		86.9	73.7	80.3		94	11	70	27+		2	0	0	0	17.76		4.07	15		0		17	12	6
MOKIL ATOLL																								
NGASANG-BABELTHUAP																								
PONAPE WSO	R	88.3	73.6	81.0	.7	92	11+	71	17+		13	0	0	0	16.14	- 1.03	2.22	15		0		20	11	7
SATAWAN ATOLL																								
TRUK, MOEN I. WSO AP	R	86.3	76.0	81.2	-.1	90	14	72	20		1	0	0	0	12.45	.46	2.05	20		0		21	7	4
WOLEAI ATOLL																								
YAP WSO AP	R	88.1	74.3	81.2	-.3	90	11	72	25+		1	0	0	0	9.47	-.56	2.44	6		0		14	7	3

SEE REFERENCE NOTES FOLLOWING STATION INDEX

## DAILY PRECIPITATION

HAWAII AND PACIFIC  
NOVEMBER 1977

STATION	TOTAL	DAY OF MONTH																																
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
HAWAII																																		
ISLAND OF KAUAI																																		
ANAHOLA 1114	A	1.62		.02	.02	.07	x	x			.45		.12	x		.50		.04		x	x	.10											.30	
BOYDESWOOD STA 885	A	4.78	.20	.38	.10	.60	x	x			1.05	.01	.01	.15	x		.45	.01				.21			.20	x	x	x	x	.50	x	.01		
EAST LAWA 934	A	4.00	.51	.50	.05	.32	x	x			1.16	T	.11	T	x		.60				x	x	.28		x	x	x	x	x	x	x			
ELEELE 827	A	2.01	.30	.07	.01	.07	x	x			.57	T					.05				x	x	.03		.38	x	x	x	x	.45	x	.02		
HAULALA 1110	A	1.79				.06	x	x					.15	x			.40	.05		.03		x	x	.15								.40		
HALENAHAO 1006	A	4.35	.14	.41	.06	.74	x	x			1.22		.04		.10	.36	x		.68	.08	.03	.04		x	x	.20		x	x	x	.18	.07		
HANALEI TUNNEL 1053	A	7.00	x	x	x	x	x	x			x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	7.00		
MUKIRO 845	A	.94	x	x	x	x	x	x			x	x	.49				.05				x	x	x			.25	.12		.03					
ILILUALA INTAKE 1050	A	9.85	.75	x	x	2.00	x	x			3.07	.12	.03		.49	.41	x		x	1.69	.26	.04	.01		x	x	.31		.10	.01	x	.04	.52	
INTAKE WAINIHA PC 1086	A	9.44	x	x	2.05	1.13	x	x			2.65	x	x		.22	.41	x		2.89	x	x	x	x	x	x	.09					T	x		
KANALOHULULU 1075	A	1.56	.02	.17	.08	.05	.03	.09			.09		.02		.03	.05	.21		.05		.01	.05	.02		.08	.02			.06	.38		.02	.02	
KANEHA RESERVOIR 1092	A	3.91	.05	.10	.10	.29	x	x			.36		.02		.03	.55	x		1.35	.03	.23	.10		x	x	.45		.15	x	x	.05	.06		
KAPAA STABLES 1104	A	2.21	.10	.20		.21	x	x			.35				.07	x		.75		.11	.03		x	x	.12							.27		
KEALA 1112	A	1.57	.11	.05		.08	x	x			.45		.02		.05	x		.28		.02	.02				.10		.05		.19	.05	.02	.02	.35	
KEKAHA 844	A	.77						.02			.04		.37																					
KILAUEA 1134	A	3.08	.25	.05	.13	.12	.18	.45			.05		.04		.08	.52	.27		.65		.11				.11				.04					
KILAUEA POINT 1133	A	1.07	.02	.01	.08	.04	.11	.01			.01	.07			.08	.02	.40				.12	.01			.12	.01							.04	
KOLO 1033	A	.65						.02																										
KOLA 936	A	3.91	.36	.30	.10	.35	x	x			1.17		.01		.01	.65	x		.58	.01				x	.24							.20		
KOLA LN (MARK) 840.1	A	1.58	.01	.14	x	.09	.19	.43			.04		.12		.18	.04			.04	.10					.06					.03	.02	.03		
KOLA MAUKA 894	A	6.39	1.38	x	x						2.38	x	x		x	x	x		1.15	x	x	x	x	x	x	.30	.56	x	x	x	x	.01	.61	
KUKULUA 935	A	1.88	.27	.09	.05	.15	x	x			.37	T			.05	.27	x		.20					x	x	.19						.20	.04	
LIHUE VARIETY ST 10621	A	2.53		.20	.07	.35	x	x			.45		.03		.03	.12	x		.62		.13	.03		x	x	.39						.06	.05	
LIHUE 1020	A	2.26	.05	.15		.24	x	x			.47				.01	.16	x		.44	.01	.15	.03		x	x	.26		.01	.10	x	x	.14	.04	
LIHUE WSO 1020.1 AP	W	1.86	.03	T	.08	.04	.10	.11			T		.26	.26	.01	.02	.12						.13	.02		T	.11		T		.01	.55		
MAKAELE 1965																																		
MAHA 1026	A	.34						.07													.06													
MOHINI UPS C0855 1083	A	3.52	.16	.16	.50	.08	.33	.41					.41	.16		.16			.80	x	x	x	x		.12							.08	.58	
MOHANI 1145	A	1.30	x	x	x	x	x	x			.38	x	x		x	x	x		x	x	x	x		.01										
MOUNT WAILALEALE 1047	W	23.78	1.87	1.57	3.18	.67	2.68	3.27			.12		.79		.43	2.95	1.85		.51	.71	2.09	.35			.08	.08		.08					.39	
NIU RIDGE 1035	A	.02						.02																										
N WAILUA DITCH 1051	A	8.46	.48	1.15	x	1.28	x	x			2.61	x	x		.11	.25	x		1.38	.28	.03	.13	.08		x	x	.26		.14	x	x	.03	.01	.24
N WAILUA RIVER 1055	A	5.20	x	x	x	x	x	x			x	x	x		x	x	x		x	x	x	x	x		x	x	x		x	x	x	.20	.04	
PA WAINIHA 1115	A	4.02	.05	.36	.21	.03	x	x			1.43		.09	.42	x		1.25		x	x	x	x		.01	T	x	x	x	x	x	x	.12	x	5.20
POINCEVILLE RANCH 1117	A	4.56	.12	.20	.07	.28	x	x			1.29	.01	.01		.26	.45	x		1.40		.17	.05		x	x	.30								
PUEHU RIDGE 1040	A	.72						.03											.17						.08				.10		.27	.07		
PUIHI 1013	A	2.19	.35	.10	.22	.22	x	x			.22	.05	.01		.15	.33	x		.20	.08				x	x	.19						.07		
WAIHANA 930	A	2.44	.26	.10	.02	.12	x	x			.70	.01			.46	x			.17					x	x	.01		.10	x	x	x	.48	.01	
WAIHAI LOBE 1054	A	7.40	.28	.94	x	1.21	.81	1.06			.41	.05	.05		.32	.24	.52		.46	.16	.17		.18	.02	.01		.07	.14				.21		
WAIHAI UPPER 1052	A	7.87	.38	1.00	x	1.30	.38	1.80			.30	.05	.04		.60	.26	.12		.50	.18	.08		.08	.01	.30		.02	.02	.03	.07			.42	
WAIHAI 843	A	.59						.02			.28		.26		.28	x		.18	.06		.16	.06			.01		.08	.12			.02	x		
WAILUA KAI 1055	A	2.08	.04		.12	.18	x	x			.27		.04		.28	x		.18	.06		.16	.02		x	x	.48		.14	.10			.06	.18	
WAIHAI 847	A	.47						.04			.12								.05															
WEST LAWA 831	A	2.27	.33	.15	.06	.18	x	x			.55	.02			.01	.42	x		.33					x	x	.09		.03	.05	x	x	.03	.02	
ISLAND OF MAUI																																		
ALOHA STADIUM-HAWAII		.73	.01	.02	.04	.07					x		x		.25										.22	x		.12						
BERETANIA PUMPING STA		1.31		.14	.28	.16	T			.01		.11			.03											.13	.04		.41	T				
B Y U LAKE 803.1	A	2.61	.14	.50	.30	.10	.06	.30			.05	.50	.22		.12	x		.10	.17	.05														
CAMPBELL LND PK 702.5	A	.39		.01	T						.09								.01		x	x	x	x		.01	.11	.04		.19	x	x		
CAMP 84 807	A	.39				x	x				.09																							
COCONUT ISLAND 840.1	A	2.11		.16	.06	.07	x	x			.17		.01		x	x	x		.30	.23		.89	x	x	.03		.05	x	x	x	x	.14		
ELVA PLANTATION 741	A	.60		.02															.04															
HELEMANU INTAKE 881	A	3.52	x	x	x	x	x	x			x	x	x		x	3.40	x		x	x	x	x		.08	x	x	x	x	x	x	x	.07		
HONOLULU OBSERV 702.2	A	.55		.01	.01	T	T				.05	T	.07						.08	T		.01			.07	.21	.04	.13		T				
HONOLULU WSO 703 AP	W	.61	.05	.01	T	T	T				.05	T							.08	T		.01			.07	.21	.04	.13		T				
KAEHA POINT 841.3	A	1.32	x	x	x	x	x	x			.26				x	.36	x		x	.23				x	x	x	x	x	x	x	.47	x		
KAHANA 883	A	6.87	x	x	x	x	x	x			.40	x	x		x	.04	x		1.32		.03	x	x	x	x	x	x	x	x	x	x	.19	x	
KAILUA FIRE STA 791.3	A	2.54	.08	.04	.02			.41	.03						.02	.04	.24		.33	.08				x	x	.13		.11	x	x	x	x	.07	
KALIMI 965 SITE 777	A	0.64	.80	.28	1.16	.30	.12	.18			.06				.52	.12			.24					3.20	.50	1.30		.36	.12	.30		.12	.16	
KANEHE MAUKA 781	A	4.13	.04	.13	.																													



HAWAII AND PACIFIC  
NOVEMBER 1977

SEE REFERENCE NOTES FOLLOWING STATION INDEX

# DAILY PRECIPITATION

HAWAII AND PACIFIC  
NOVEMBER 1977

STATION	TOTAL	DAY OF MONTH																															
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
HAWAII																																	
KONA (KAILUA) 69.3	A	.58									.03								.55														
KONA VILLAGE 83.8		.13																						.12			.01						
KUKAIUA 222		3.06	.89	.09	.65							.11	.57	T	.57	.14		T															
KUKUIHALE MIC 199		2.00	.40	.42	.42					.04	.14	.02	.06	.15	.08	.12	.14																
KUKUIHALE HILL 206	A	1.13	.28	.15	.35					.04	.02		.03			.14	.12																
KULANI CAMP 79		3.01	.30	.30	.20	.30				.02		.05	.03	.06	.05	.03	.14	1.20		.27													
KULANI MAUKA 76	A	1.01	x	x	x	x	x	x		.48	x	x	x	x	x	x	.18	x		x	x	x	x	x	x	.34		.02		.04			
KULANI SCHOOL SITE 78	A	5.93	x	x	x	x	2.00	x	x	x	x	x	x	x	1.10	x	x	x	x	x	x	2.80	x	x	x	x	x	x	.03		.04		
LANIHUA 68.2		.75	.05	.43	.05														.18														
MAKAHALA 103		.05	.05																														
MAUKA 2	A	.32		.01		x	x			.10								.20															
MAUNA KEA 085 111.2		-																															
MAUNA LOA SLOPE 085		.20	T															.20															
MIDDLE MAUNA LOA 68.1	A	.86	x	x	x	x	x	x		.43							x	x	x	x	x	x	.43								x	x	
MIDDLE PEN 147.1	A	.00																															
MOAULA 18	A	2.04											x	x	x	x	x	x	.20	x	x	x	x	x	x	x	.44	x	x	x	x	1.40	
MOUNTAIN VIEW 91		7.62	.18	.63	.69	1.24	.07	.02		.13	.06	.02	.05	.08	x	x	1.83	.48	1.48	.33	.01							x	x	x	.10	.07	.14
NAALEHU 14	A	1.19	x	x	x	x	x	x		.02	x	x	x	x	x	x	.36	x	x	x	x	x	.07	.14							T	.13	.02
NAROPPOO 28	A	.40																															
OKALA 223		4.68	.88	.30	1.05	T				T			.03	.48	.05	.88	.95	.01	.03														
OPHIHALE 2 24.1		1.56	.18	T	.01	.01	.22	T		.08	x	1.02	T	T					.04	T	T	T											
ORCHID LAND EST 81.5	A	7.98	x	x	x	2.95	x	x	x	.46	x	x	x	x	x	x	x	4.45	x	x	x	x	x	x	x	x	x	x	x	x	.10	x	x
PAUHAU 217		1.73	.83	.09	.27					.01	.12	.22	.18	.01																			
PAUHAU 221		2.10	.85	.06	.50							.13	.38	.30	.05	.01	.62	.17	T														
PAUHAU 21	A	1.05	.01																				.15	.02	.08								
PAWA 65	A	10.72	.61	.31	.51	.78	.18	.02		.12	.18	.05	.06	.34	x	x	.92	1.36	4.47	.08							.02	x	x	x	.07	.42	.12
PAWA 37	A	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	
PAPAIKOU 144.1	A	10.02	.12	1.20	1.05	.85	x	x	.30	.01	.73	x	x	1.13	2.70	1.82	.05																
PAPAIKOU MAUKA 140.1	A	10.10	.15	1.53	1.08	1.77	x	x	.23	.01	.01	.36	x	x	1.26	1.72	1.73	.02															
PIIHONUA 89	A	7.20	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	7.20	
POHAKULOA 107	A	.00																	.02														
POHAKULOA HEIAU 98.1	A	.02	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	.30	
PUU LEHUA 73	A	.30																	.12														.50
PUU WAAHUA 84.1	A	.62	x	x	4.36	x	x	x	x	x	x	x	1.65	x	x	x	x	4.22	x	x	x	x	x	.02	x	x	x	x	x	x	x	x	
SADDLE ROAD 1 84	A	10.25	x	x	4.36	x	x	x	x	x	x	x	1.65	x	x	x	x	x	x	x	x	x	x	.02	x	x	x	x	x	x	x	x	
SOUTH KONA 2.31		.54																	.51														
SOUTH POINT CORRAL 3	A	.41	T	.20	.10	T			T	T			x	x	x	x	x	.20	x	x	x	x	x	x	x	.21							
UPOLU POINT USCG 159.2		.36																	.05	T													
WAIKAE SCD 88.2		11.37	.36	1.08	1.71	1.32	.08	T		.01	T	.68	.57	.87	.27	.40	1.05	.02															
WAIKALOA-8015 CAS 85.8		.02																															

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# DAILY PRECIPITATION

HAWAII AND PACIFIC  
NOVEMBER 1977

STATION	TOTAL	DAY OF MONTH																																
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
PACIFIC																																		
* * *																																		
EAST OF 180TH																																		
MERIDIAN																																		
ATU-U	15.66	.52	.02			.09	1.43					.05	.40		.21	.62		.52	.21			.22	.18	.69	4.62	.54	.57		.18	1.76	2.39	.43		
CANTON ISLAND	1.05												.22	*	.22																	.58	.03	
FAGA ALU RESERVOIR																																		
FALEASAO VILLAGE	26.76	.06	.09	.02	.01	.07	1.31	1.65	.02				4.59	1.98	2.08						1.07	.76	1.56	2.07	.45	2.29	4.01		T	.87	1.68	T	.02	
JOHNSTON IS WSO AP	13.12	T	.10	T	2.49	.42		.77	1.23	4.43		.02	3.26	.05	T	.07		.22	T	T					.06									
LEONE	15.18	.39		.06	.08	.04	1.50	.02	.01			.16	.04	.17		.63	.35	.22	.04				.13	.95	6.98	.23	.40		.20	1.30	1.00	.27	.01	
FRENCH FRIGATE SHOALS	7.86	.03	.19	.18	.11	.07		.03	.03	2.35		.48	.55		.02	.34	.01			.09			.42	.01	.01			.72	.60		.75	.97		
MIDWAY SAND ISLAND	4.87	.26	.10	2.20	.31	.36	.08	T	T	T		.03	T	.04	.15	.06	.05	.08	T		T	.01	.16	.07	.05		.03	.33	.09	.11	.24	.05		
PAGO PAGO WSO AP	14.81	2.46		.07	.01	.01	1.65				.20		.02	T	.03	T		.02	T	T		.08	1.25	5.18	.18	.25		.15	2.62	.53	.11			
* * *																																		
WESTERN PACIFIC ISL.																																		
NORTH OF 12 N																																		
ANDERSEN AFB GUAM	10.77	.14	.01	.15	.40	.03	.08	.51	2.55	1.49		.07	.20	.42	.05	2.20		.05	T		T	.27	.08	T	1.62	.06		T	T		.37	.01		
CLARK AFB LUZON	14.30	.26	.03	.03	T					T				.011	.68	2.16	.07	T	.06															
GUAM NAS																																		
GUAM WSO	12.38	.35	.02	.23	.43	.07	.05	.51	6.07	.62		.02	.18	.38	.47		.82		.04	.01		.31	.08		.02	1.07	.21		.10		.30	T		
MANGILAO	10.84	.13	.01	.51	.89		.22	.02	3.85	.59	.45	.03	.04	.32	.36			1.02		.04		.02	.28		.10	.84	.42	.04	.02		.08	.35		
RITA	8.10	1.01	.04		.01	*	*	.11	.15	*	2.50	.30	*	*	1.24	.81	.64	.11	.01	*	*	.27		.23	*		.27	*	*	.03	.10	.27		
SAIPAN (LORAN)																																		
Wake Island WSO AP	2.83	.58	.01	.01	T	.04		.01	.01	1.49	.10	T	T	.01	.21		T				T	.02	.08		.03			.18				.05		
* * *																																		
CAROLINE AND																																		
MARSHALL ISLANDS																																		
ANGUAR	10.56		.02	.77	1.00	.56	.37	.62	1.10	2.31	1.82	.49	.33	.20	.17	.09					.02	.36	.02		.02			.10	.11		.05	.03		
ENIWETAK																																		
FALALOP I., ULITHI																																		
KAPINGMARANGI ATOLL																																		
KOROR WSO	7.38	.28		.10	.33	1.18	.01		.36	.08	.05	.55	.21		.19			.06	.45			.34	.21	T		.62		.06	1.08	.22	.28	.71		
KWAJALEIN MISSILE RGN	8.76	.51	.29	.03	T	.15	1.62	T	.03	T		.01	.80		T		.31	.32		.81	.12	T		.13	.01		.05	2.21	.93	.42	.01	T		
LELE I., KUSAIE	10.08	.36	.16	.59	.02	2.47	.52	1.22	.07		.02	.15	1.32		.37		.18	.50	.68	.04		.33		.35				.21	.52	T				
MAJURO WSO AP	11.85	1.11	.09		.42	.39		.01	T	.28	1.00	.07	2.26	T	.01	.47	.06	.68	.35		.16	.75	.13		T		1.80	.24	.02	1.44				
METARAKIN	17.76		1.16	1.62	.52	.65	.05	.01	.87	.54		.02	.05	.88	1.33	4.07	.03	.28			.12	.08	.46		.01	.06	T	.45	.12	.55	1.02	2.66	.04	
MOEL ATOLL																																		
NGASANG, BABELTHUAP																																		
PONAPE WSO	16.14	.19	1.10	1.28	.78	1.50	.06	T	T	.04	.01	1.28	.82	1.30	.37	2.22	.01		.34		.16	.18	.84		.02	.08		.28	.51	.40	1.82	.28	.26	
SATAWAN ATOLL																																		
TRUK, MOEN I., WSO AP	12.45	1.91	.19	.08	.21	.10	.67	.04	.15	.10	.36	.27	.11		.01		.16	T	.10		.64	2.05	.41	.25	1.25	.07	.35	.46		T	.86	1.65		
WOLEAI ATOLL																																		
YAP WSO AP	9.47		.85	.37	.02	.01	2.44	1.16	.04	.18			.28	.51			.02	.23	.28		.01	.60	.63	.06	T	.07	.33	.01	1.15	.12	.09	T		

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# DAILY TEMPERATURES

HAWAII AND PACIFIC  
NOVEMBER 1977

STATION		DAY OF MONTH																															AVERAGE
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
HAWAII																																	
ISLAND OF KAUAI																																	
KANALOHULU 1075	MAX MIN	72 53	68 58	66 57	69 57	69 57	69 58	70 53	67 43	69 45	69 58	66 58	69 58	70 55	69 53	70 52	67 47	70 45	70 45	70 47	68 55	68 50	70 52	65 52	71 52	68 53	71 46	70 46	70 44	68 49	64 56	68.7 51.8	
KILAUEA POINT 1133	MAX MIN	84 74	84 74	80 73	79 71	80 71	79 73	83 73	84 73	84 74	82 72	78 71	82 69	82 74	82 74	84 71	84 70	84 71	83 69	87 73	84 72	83 71	85 70	86 72	84 71	87 73	87 71	87 71	84 72	84 73	86 70	83.4 71.9	
KOLOA LN (MAK) 940.1	MAX MIN	85 74	85 70		82 70	80 71	81 69	82 72	84 73	84 68	84 72	84 69	82 73	83 72	83 73	84 71	85 71	86 66	86 66	86 66	81 69	87 68	88 67	88 67	88 67	85 70	88 70	87 68	90 66	87 65	89 71	84.8 69.2	
LIHUE W50 1020.1 AP	MAX MIN	83 75	85 76	80 73	82 75	83 74	82 73	84 75	84 71	84 71	85 76	82 73	83 73	84 72	84 75	83 73	83 70	82 66	82 67	81 66	81 68	81 71	86 69	85 71	83 70	84 71	84 70	85 68	84 65	84 66	83 73	83.2 71.2	
MANA 1026	MAX MIN	87 67			89 63	88 61	89 63	87 64	87 63	91 65	87 64		85 64	87 65	86 64	89 63	87 67	87 62	86 64	86 62	86 66	85 65	86 72	87 70	86 67	87 66	86 64	85 65	87 66	88 65	85 72	86.9 65.1	
NIU RIDGE 1035	MAX MIN																																
WAIKAI LOWER 1054	MAX MIN	78 66			74 67	76 65	74 65	77 66	78 62	77 64	77 63	77 66	77 67	75 66	77 64	76 68	78 64	78 67	79 64	79 56	77 62	78 60	79 59	77 62	78 62	79 62	78 64	79 62	78 64	79 59	78 59	79 59	77.5 63.1
ISLAND OF OAHU																																	
ALOHA STADIUM-HALAWA	MAX MIN	85 72	83 72	84 71	81 71			84 65	84 66	86 67	85 67	86 67		84 69	83 70	84 70	87 68	86 69				86 65	85 67	81 68		85 67			86 67	85 67	86 68	84.6 68.2	
B Y U LAIE 903.1	MAX MIN	83 73	83 72	83 71	82 71	82 72	81 71	83 73	83 67	84 69	83 69	85 71		86 73	85 72	88 69	84 71	85 69	88 66			89 69	87 68	85 70					85 71	87 69	86 66	84.5 70.2	
EWA PLANTATION 741	MAX MIN	88 68	86 70	85 71	84 72			86 66	87 64	85 65	87 66	88 69		87 69	86 68	86 67	86 70					87 61	85 66	82 66					86 64	85 65	87 66		
HONOLULU W50 703 AP	MAX MIN	87 74	87 74	86 74	87 74	88 75	88 75	87 71	89 67	89 69	88 71	85 74	86 74	86 74	86 75	88 74	87 71	84 69	83 66	84 67	84 71	83 66	85 67	84 70	84 73	84 69	86 71	85 71	85 69	86 68	86 70	85.9 71.3	
KANEHE MAUKA 781	MAX MIN	84 72	80 73	80 71	78 72	78 72	78 72	80 71	80 71	82 72	81 72	80 73	78 72	79 73	79 73	80 71	81 70	80 69	82 71	81 69	84 70	83 69	80 68	80 72	80 68	80 72	80 72	80 72	81 71	84 71	84 71	80.5 71.0	
MANOA LYON ARBORETUM	MAX MIN	83 68	80 68	79 69	75 69	77 68	81 68	80 68	82 66	83 65	84 71	80 69	79 68	76 67	82 70	79 69	81 66	84 65	85 65	85 63	84 63	83 64	84 65	83 66	82 70	82 67	85 68	83 66	83 68	86 65	81.8 67.0		
OPAEULA 870	MAX MIN	80 65	79 70	78 69	73 69			78 67	64 64	64 64	86 70	79 64		78 69	87 66	88 68	80 71	86 66					67 69	68 68					62 62	59 59	58 58		
WAIKALEE 896.3	MAX MIN	80 73	80 71	80 71	79 67	80 69	80 70	79 70	80 71	81 70	81 71	79 71	80 70	80 72	80 72	81 70	81 69	81 69	81 66			81 66	82 68	83 70	86 69	80 70	82 70	82 68	83 68	81 66	83 69	80.9 69.7	
WAILUA 847	MAX MIN	86 65	85 66	84 68	80 67	82 68	88 70	83 66	85 69	85 65	88 66	84 69	84 66	82 62	84 63	88 63	85 63	85 63	84 63	84 60	84 61	85 62	86 61	86 66	90 68	82 66	86 64	86 63	88 64	87 62	85 65	84.9 64.5	
WAIKIKI 717.2	MAX MIN	89 68	87 70	87 69	84 66	84 71	87 69	88 64	87 62	88 66	88 67	85 69	86 70	84 69	85 71	85 71	87 66	88 64	86 66	86 61	86 63	86 67	87 66	86 66	86 68	85 65	87 65	87 66	86 64	87 66	88 66	86.4 66.8	
WAIMANALO EXP FARM	MAX MIN	84 72	83 72	82 71	79 70	82 72	82 70	83 73	83 69	84 69	84 73	83 72	83 73	81 72	82 73	81 73	82 74	82 66	81 65	81 64	82 67	82 66	81 67	82 68	81 69	82 70	80 70	85 70	83 68	84 70	82 67	82.5 69.8	
ISLAND OF MOLOKAI																																	
MOLOKAI AP 524	MAX MIN	86 70	85 72	85 74	83 72	85 69	85 76	85 70	85 67	86 72	85 75	84 70	85 73	85 70	85 72	87 72	85 73	85 65	84 65	87 67	83 65	83 67	84 67	85 69	85 72	80 67	83 65	84 67	86 66	86 65	86 65	84.7 69.3	
ISLAND OF LANAI																																	
LANAI AIRPORT 656	MAX MIN	81 63	82 66	82 67	81 66	81 59	81 62	82 60	82 61	82 64	81 66	81 64	79 64	81 60	80 60	82 64	81 66	78 61	80 60	79 59	78 60	78 60	83 61	82 62	82 67	81 64	80 63	81 64	79 61	80 62	81 62	80.7 62.6	
LANAI CITY 672	MAX MIN				76 66	75 66		80 66	79 61	80 61	77 66	77 66		76 61	77 65		80 66	76 64	78 61				78 63	82 64	84 64				82 61	80 62	80 63		
ISLAND OF MAUI																																	
HALEKALA RS 338	MAX MIN	64 42	66 46	61 49	57 46	64 44	61 47	65 46	64 39	61 40	60 41	62 42	63 46	64 45	64 47	63 44	62 43	62 42	61 39	62 40	70 49	67 45	68 44	64 48	65 47	66 49	69 49	70 49	67 48	67 47	63 44	64.1 44.8	
HANA AIRPORT 355	MAX MIN	82 69	82 70	82 71	79 70	81 70	82 71	80 69	82 69	83 69	82 69	82 68	82 68	82 69	81 73	82 71	81 69	82 68	81 67	81 65	81 65	82 67	82 65	85 68	84 70	83 73	83 73	84 72	82 72	82 67	81.9 69.2		
KAAHAPALI AP 453.1	MAX MIN	83 68	83 71	83 71	81 71	83 74	84 70	84 66	83 65	81 68	82 70	84 71	83 73	83 73	83 74	83 69	83 68	83 65	81 65	80 66	80 67	81 68	82 68	83 74	83 68	83 68	81 70	82 66	83 66	83 68	82.4 68.9		
KAHULUI W50 398 AP	MAX MIN	85 66	85 74	83 73	84 73	86 75	86 68	88 66	86 63	86 65	85 74	87 75	86 66	85 65	86 74	86 67	91 65	85 63	85 61	84 62	81 62	83 62	84 65	89 73	86 65	88 67	89 66	87 65	87 66	89 65	86.1 67.8		
KAILUA 446	MAX MIN	78 67	78 68	78 67	75 66			77 67	81 63	78 66	80 67	79 67		78 68	77 67	78 66	78 64	78 62				79 61	81 64	80 63				83 65	77 66	78 66			
KEAWAKAPU BEACH 260.2	MAX MIN	87 64	84 68	86 68	89 65	86 68	88 63	86 63	87 63	87 65	89 65	86 66	85 65	88 61	87 64	87 66	87 69	86 65	86 63	85 62	85 62	85 65	85 65	85 65	86 66	86 66	87 66	85 64	84 66	86 66	86.3 64.9		
KULA SANATORIUM 267	MAX MIN	74 57	74 58	75 61	78 58	77 56	76 56	74 57	75 59	74 57	76 57	74 62	72 56	75 63	75 57	77 56	76 61	73 60	74 61	75 56	72 56	76 57	77 58	75 66	82 62	78 59	79 58	74 56	74 57	75 58	77 57	75.4 58.3	

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# DAILY TEMPERATURES

HAWAII AND PACIFIC  
NOVEMBER 1977

STATION		DAY OF MONTH																															AVERAGE
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
HAWAII																																	
LAHAINA 361	MAX MIN																																
WAILUKU 386	MAX MIN	82 72	79 71	81 71	79 71			83 83	83 83	83 83	83 83			83 75	83 72		85 71	85 71		85 65		86 64	80 66	85 65					89 66	83 68	86 68		
• • •																																	
ISLAND OF HAWAII																																	
HAWAII VOLCNS NP HO 54	MAX MIN	71 54	71 52	70 51	64 55	69 52	69 51	69 51	70 51	73 54	73 51	70 53	70 53	68 53	68 54	69 55	67 59	68 50	70 50	71 49	71 48	72 51	69 48	75 46	75 46	73 42	76 52	70 50	72 49	72 48	71 48	70.5 50.9	
HILO WSO AP 87	MAX MIN	85 68	84 71	81 70	84 68	83 65	85 63	85 64	86 67	86 67	84 65	84 66	82 68	83 65	83 68	79 69	82 67	83 64	84 64	83 63	82 64	85 65	86 64	86 63	86 66	87 68	86 65	86 66	84 69	84 66	88 65	84.2 66.1	
KAINALIU 73.2	MAX MIN	79 65	81 64	80 63	78 64	81 66	80 60	81 61	79 61	80 62	80 62	81 60	82 61	80 61	82 62	80 63	81 62	80 64	80 64	80 60	78 64	80 60	80 60	81 62	82 62	84 62	79 64	82 68	80 60	80 61	81 62	80.4 62.3	
KAMUELA 192.2	MAX MIN	73 54	73 62	73 61	69 62			70 50	72 52	78 57	75 61	73 61		72 58	72 52	75 53	75 58					78 49	73 51			82 52			80 51	78 51	80 50		
KAPOHO BEACH 93.11	MAX MIN	81 68	85 69	84 71	84 72	85 71	85 68	85 67	86 70	86 70	86 69	84 70	83 67	84 68	85 71	81 70	83 66	84 65	84 65	83 66	84 66	85 67	88 69	88 72	86 69	86 72	87 68	86 67	87 68	87 70	87 70	85.0 68.7	
KEARU 92	MAX MIN	77 64	81 67	81 68	78 67	81 64	80 63	82 63	81 62	82 67	82 65			82 64	81 67	77 68	81 64	80 64				82 63	85 64	84 63		86 65			85 64	83 66	81 65	81.5 64.9	
KOHALA MISSION 175.1	MAX MIN	80 67	80 68	78 69	75 68	79 69	79 70	80 68	79 64	80 62	80 65	80 68	78 69	78 69	79 66	79 63	78 68	79 65	79 63	80 62	79 63	80 62	81 65	82 64	84 67	84 65	82 65	80 64	82 67	78 67	80 64	79.7 66.0	
KONA (KAILUA) 68.3	MAX MIN	86 72	85 72	86 71	85 71			87 68	86 68	85 69	85 70			86 68	85 70	85 71	85 68	85 68				83 67	86 67	88 68					89 68	85 68	85 68		
KULANI CAMP 79	MAX MIN	65 53	65 47	64 50	60 50	64 58	63 57	60 47	64 48	68 48	67 49	62 45	58 46	63 55	64 57		63 50	61 47	67 45	75 39	62 56	70 47	72 47		71 47	70 44	71 51	65 36	69 37	68 54	62 45	65.5 48.4	
MAUNA LOA SLOPE OBS	MAX MIN	56 36	52 35	53 35	54 38	54 37	54 36	51 34	50 32	50 34	55 36	55 40	53 40	56 39	52 35	50 33	50 32	56 37	56 38	55 38	55 37	54 37	55 34	52 37	57 35	56 42	57 41	55 37	50 33	51 33		53.6 36.2	
MOUNTAIN VIEW 91	MAX MIN	74 59	79 63	76 64	71 63	77 60	78 56	78 56	77 57	79 61	79 61			79 59	76 62	75 64	74 58	74 58				80 57	79 58	82 61		81 63			81 57	79 60	76 61	77.7 60.0	
NAALEHU 14	MAX MIN	80 65	81 68	82 69	79 69			82 66	80 67	82 67	81 61	82 61		82 61	82 68	79 68	80 62	80 63				80 61	80 63	83 64					83 64	84 67	80 67		
OOKALA 223	MAX MIN	77 67	79 68	79 68	78 68	80 69	83 69	83 67	79 67	79 67	80 68	80 68	78 67	78 67	80 68	79 68	78 66	80 65	80 65	79 65	79 56	79 56	79 56	80 66	82 66	80 67	82 68	84 66	80 70	79 66	80 65	79.8 66.6	
OPIHIHALE 2 24.1	MAX MIN	78 60	81 61	82 63	80 64	82 65	82 66	79 64	76 64	77 63	81 64	78 63	78 61	81 63	79 60	72 63	79 59	82 60	82 61	82 61	80 61	77 63	74 62	82 60	78 61	75 63	75 62	76 59	75 61	77 59	83 60	78.8 61.9	
PAHALA 21	MAX MIN	81 64	83 66	84 66	82 64			89 62	81 63	83 63	83 61	83 62		87 64	82 61	82 67	78 65	80 65	80 62	82 62	81 60	80 62	85 60	85 61					83 63	85 63	82 63	82.5 63.2	
PUUKOHOLA HEIAU 98.1	MAX MIN	80 70	87 70	92 70	89 72	91 70	91 70	87 66	68 66	88 70	90 68	89 70	86 68	90 68			90 68	87 69	87 66	85 66	85 66	74 61	80 66	79 66	87 67	88 68	86 69	87 69	85 69	85 68	86 69	86.4 67.9	
SOUTH KONA 2.31	MAX MIN	76 59	81 58	76 60	75 57	78 59	78 60	78 60	76 57	77 59	78 55	78 55	79 57	77 61	80 60	79 60	74 56	77 55	77 54	75 55	75 54	76 56	78 54	81 62	79 63	80 57	81 56	77 57	78 58	80 60	76 58	77.7 57.9	
UPOLU POINT USCG 159.2	MAX MIN	84 68	84 72	83 71	84 68	83 74	82 70	84 66	84 73	85 71	85 72	84 73	83 71	83 71	83 71	82 64	84 70	84 72	84 69	85 67	84 71	83 68	83 70	85 70	84 69	85 70	86 70	84 69	85 69	85 70	85 69	84.0 69.9	

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# DAILY TEMPERATURES

HAWAII AND PACIFIC  
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STATION		DAY OF MONTH																															AVERAGE
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
PACIFIC																																	
EAST OF 180TH MERIDIAN																																	
CANTON ISLAND	MAX MIN	90 78	89 79	90 82	90 82	90 82	91 79	90 77	88 78	90 81	92 82	92 82	90 80	91 81	91 82	90 82	91 82	90 81	91 82	91 82	92 83	90 83	91 82	91 82	92 80	92 80	91 80	91 80	89 81	89 81	90.6 80.9		
JOHNSTON IS WSO AP	MAX MIN	84 77	82 77	84 79	83 76	83 77	82 79	81 75	81 73	79 71	81 74	80 73	82 78	82 76	83 78	82 76	83 79	83 78	82 77	84 75	83 77	82 77	82 78	83 79	83 79	83 78	83 78	83 77	83 78	83 77	82.3 76.7		
LEONE	MAX MIN	83 78	87 80	87 80	89 79	88 81	84 78	88 79	88 81	90 83	90 83	90 82	89 81	85 79	87 78	88 81	88 80	89 81	88 80	87 79	88 79	83 77	87 78	87 81	88 83	88 79	88 79	89 82	89 81	88 79	88 79	87.7 80.1	
FRENCH FRIGATE SHOALS	MAX MIN	85 75	82 72	81 71	81 72	81 73	82 72	82 75	87 75	77 70	81 70	79 72	80 68	80 71	83 72	82 74	84 74	81 76	82 73	83 73	83 70	82 68	83 66	82 67	83 70	82 70	81 66	81 70	80 72	81 70	74 69	76 69	81.3 71.0
MIDWAY SAND ISLAND	MAX MIN	76 65	78 65	77 71	80 73	79 70	74 67	72 64	72 66	74 69	75 67	75 71	77 72	80 68	74 68	75 68	79 67	72 65	76 69	76 71	75 64	73 64	71 64	75 66	73 63	69 57	70 59	66 60	64 55	67 56	74.1 65.6		
PAGO PAGO WSO AP	MAX MIN	83 74	84 75	82 74	86 73	86 80	82 75	85 79	84 78	86 79	85 75	86 79	84 78	85 79	85 75	85 75	86 77	86 79	86 80	87 79	84 77	83 75	82 75	86 75	85 75	87 79	85 76	83 76	86 76	85 78	84.8 76.8		
WESTERN PACIFIC ISL. NORTH OF 12 N																																	
ANDERSEN AFB GUAM	MAX MIN	83 74	83 77	84 77	84 78	85 78	84 78	84 77	80 77	83 77	82 77	84 76	83 76	84 77	80 74	84 77	83 77	83 77	83 78	84 78	83 78	83 74	83 78	83 78	84 79	83 79	83 78	83 78	82 78	84 79	83.1 77.3		
CLARK AFB LUZON	MAX MIN	88 75	90 73	88 72	86 73	88 73	91 75	88 75	90 75	88 73	90 73	88 72	91 68	81 70	77 72	86 75	88 73	82 73	82 73	86 72	86 72	86 75	86 72	84 73	86 72	86 75	86 70	86 73	86 72	86 73	86 72	86.7 72.8	
GUAM NAS	MAX MIN																																
GUAM WSMO	MAX MIN	86 71	88 72	87 72	86 73	86 73	86 74	85 74	80 75	84 73	86 76	86 74	85 74	84 76	80 73	85 73	85 71	85 70	86 72	86 75	85 77	85 73	85 72	85 74	85 76	86 73	85 70	85 73	83 72	84 77	85.0 73.4		
SAIPAN LORAN	MAX MIN																																
WAKE ISLAND WSO AP	MAX MIN	87 74	86 76	87 78	87 77	87 76	87 78	85 75	86 77	84 71	82 75	86 77	83 76	84 75	86 75	86 77	86 77	85 77	84 75	84 75	84 75	85 77	84 77	85 74	85 77	84 76	83 72	81 75	82 73	82 72	82 72	84.6 75.3	
CAROLINE AND MARSHALL ISLANDS																																	
ENIWETAK	MAX MIN																																
FALALOP I. ULITHI	MAX MIN																																
KAPINGAMARANGI ATOLL	MAX MIN																																
KOROR WSO	MAX MIN	89 77	89 78	89 76	89 77	90 77	89 76	90 77	90 78	90 77	90 77	87 76	86 77	90 79	90 77	91 75	90 77	91 77	87 76	89 75	91 76	90 75	89 78	90 77	88 78	88 75	91 76	90 77	90 76	88 76	90 76	89.4 76.6	
KWAJALEIN MISSILE RDG	MAX MIN	87 74	88 77	88 79	88 80	85 77	87 77	86 78	88 81	87 80	88 80	88 79	83 75	89 79	88 80	88 80	88 79	87 78	87 78	84 77	88 80	88 80	88 78	88 77	88 80	87 78	82 75	85 76	86 77	88 80	88 80	87.0 78.3	
LELE I. KUSAIE	MAX MIN	89 75	88 74	91 76	87 76	88 70	91 76	88 69	89 76	90 75	91 78	89 76	88 73	90 76	91 76	87 76	90 76	90 75	91 75	92 74	91 74	89 72	90 74	89 76	91 73	91 71	90 76	88 70	89 72	89 72	89 72	89.6 74.2	
MAJURO WSO AP	MAX MIN	86 74	85 75	88 74	89 76	86 75	86 75	89 76	87 75	86 75	87 74	87 76	85 74	88 76	89 76	89 74	88 74	85 75	87 74	87 75	88 74	88 76	87 78	87 81	87 74	86 75	87 74	87 75	84 74	88 78	88 79	86.8 75.5	
METALANIM	MAX MIN	89 73	84 74	85 75	85 74	89 72	89 76	89 74	89 73	87 74	89 73	94 74	90 74	87 73	88 75	81 72	86 73	86 70	87 77	89 77	85 76	86 75	87 76	87 72	87 70	87 74	84 70	84 74	80 74	86 76	88 79	86.9 73.7	
PONAPE WSO	MAX MIN	89 73	86 73	84 74	88 73	83 74	89 74	89 73	92 73	90 73	91 72	91 73	90 73	90 74	81 71	89 72	90 71	87 78	87 77	91 74	87 75	87 75	87 72	90 73	91 74	88 73	87 74	86 75	82 75	89 74	91 74	88.3 73.6	
SATAWAN ATOLL	MAX MIN																																
TRUK. MOEN I. WSO AP	MAX MIN	82 74	87 77	88 76	84 74	86 77	86 75	87 77	88 80	88 76	84 74	86 75	86 74	88 74	90 79	87 78	87 74	88 75	87 79	87 77	83 72	85 76	87 77	87 74	87 78	86 76	87 77	87 80	87 76	82 74	86 74	86.3 76.0	
WOLEAI ATOLL	MAX MIN																																
YAP WSO AP	MAX MIN	89 72	88 75	88 74	88 74	89 74	88 75	88 74	88 74	88 73	88 76	90 79	89 77	89 75	88 76	89 74	88 73	88 76	86 74	88 72	88 74	87 73	88 73	88 75	87 72	88 76	87 73	89 75	88 75	88 74	88.1 74.3		

SEE REFERENCE NOTES FOLLOWING STATION INDEX

# EVAPORATION AND WIND

HAWAII AND PACIFIC  
NOVEMBER 1977

STATION	DAY OF MONTH																															TOTAL OR AVG.
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
HAWAII																																
ISLAND OF KAUAI																																
LIHUE WSO 1020.1 AP	EVAP	.27	-	.36	.22	.33	.30	.34	.30	.30	.20	.23	.21	.24	.34	.33	.21	-	.15	.20	.15	.12	.12	.25	.16	.22	.19	.27	.25	.22	.23	7.198
	WIND	192	244	298	415	194	267	256	142	127	146	192	226	213	243	229	112	107	81	82	74	54	73	109	98	88	87	82	101	82	128	4742
	MAX	87	83	83	84	89	91	87	87	85	86	85	78	83	83	84	85	85	85	86	84	86	86	86	82	86	86	87	87	85	85	85.2
	MIN	68	68	68	68	68	68	68	67	67	68	69	69	69	67	67	68	68	63	63	62	62	64	66	66	65	65	66	65	62	68	66.1
ISLAND OF OAHU																																
HONOLULU OBSERV 702.2	EVAP	.45	.31	.31	.30	.30	.38	.38	.45	.38	.30	.15	.13	.34	.45	.37	.30	.30	.32	.30	.35	.30	.32	.06	.26	.05	.30	.30	.30	.15	.37	8.98
	WIND	22	26	39	55	58	49	33	33	37	20	22	21	33	60	38	23	34	24	25	23	22	35	17	35	14	31	35	26	35	27	952
	MAX	88	87	88	85	86	88	89	88	86	89	85	85	86	87	87	86	88	90	86	85	87	88	83	88	83	87	86	87	86	88	86.6
	MIN	69	69	69	67	67	67	67	65	66	66	68	68	66	66	66	68	67	67	66	65	66	67	68	69	67	67	67	66	66	67	67.0

SEE REFERENCE NOTES FOLLOWING STATION INDEX

# EVAPORATION AND WIND

HAWAII AND PACIFIC  
NOVEMBER 1977

STATION	DAY OF MONTH																															TOTAL OR AVG.
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
PACIFIC																																
*** EAST OF 180TH MERIDIAN																																
JOHNSTON IS WSO AP	EVAP	.05	.32	.19	-	.31	.18	.10	-	-	-	-	.31	.28	.25	.15	.28	.15	.26	.31	.31	.20	.28	.31	.40	.12	.24	.27	.19	.24	6.848	
	WIND	253	254	244	260	248	262	235	187	247	354	241	226	202	242	178	166	152	130	125	132	172	120	118	123	195	144	123	129	65	24	5551
*** WESTERN PACIFIC ISL. NORTH OF 12 N																																
GUAM WSMO	EVAP	.17	.17	.21	.17	.22	.21	.14	-	-	-	.18	.16	.15	.19	.19	.24	.22	.20	.19	.20	.24	.28	.23	.26	.33	.19	.28	.26	.11	.25	6.278
	WIND	68	40	61	82	62	87	56	-	-	-	564	85	88	156	60	117	112	93	75	127	134	119	113	119	169	148	133	94	108	141	3211
	MAX	93	95	95	94	95	95	90	-	-	89	94	90	89	90	84	91	92	92	93	90	92	92	91	90	91	91	91	90	86	88	91.2
	MIN	73	73	74	74	74	72	74	-	-	75	75	77	73	74	73	69	71	71	72	75	74	72	72	73	72	73	71	71	74	73	73.0

SEE REFERENCE NOTES FOLLOWING STATION INDEX

# STATION INDEX

HAWAII AND PACIFIC  
NOVEMBER 1977

STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES				OBSERVER
								TEMP.	PRECIP.	EVAP.	SPECIAL (SEE NOTES)	
HAWAII												
ISLAND OF KAUAI												
ALEXANDER RESV. 9B3	0140	02	KOLOA	2	21 57	159 32	1610				C	MCBRYDE SUGAR CO.
ANAHOLA 1114	A 0145	01	KAWAIIHAU	1	22 08	159 18	180		7A		C	LIHUE PLANTATION CO
BRYDESWOOD STA 9B5	A 0240	02	KOLOA	2	21 56	159 32	720		7A			MC BRYDE SUG CO LTD
EAST LAWA 934	A 0456	02	KOLOA	2	21 55	159 30	440		7A			MC BRYDE SUG CO LTD
ELEELE 927	A 0470	02	KOLOA	2	21 54	159 35	150		6A			MC BRYDE SUG CO LTD
HALAULA 1110	A 0935	01	KAWAIIHAU	1	22 07	159 19	253		7A			LIHUE PLTN CO LTD
HALENANAO 1006	A 1038	02	LIHUE	2	21 58	159 26	490		BA			LIHUE PLANTATION CO
HANAHANAPUNI 1055.2	1140	02	KAUAI	2	22 03	159 25	600				C	LIHUE PLANTATION CO LTD
HANAIEI TUNNEL 1053	A 1170	01	KAWAIIHAU	1	22 05	159 28	1218		MZ			LIHUE PLTN CO LTD
HUKIPO 945	2161	03	WAI MEA	3	21 59	159 41	800		BA			KEKAHA SUGAR CO LTD
ILIILILUA INTAKE 1050	A 2222	02	LIHUE	2	22 02	159 28	1050		VAR			LIHUE PLTN CO LTD
INTAKE WAINIHA PC 1086A	2227	01	HANAIEI	1	22 09	159 34	690		WI			MC BRYDE SUG CO LTD
KANALOHULUHULU 1075	3099	03	WAI MEA	3	22 08	159 40	3600		7A		C	STATE DIVISION OF PARKS
KANEHA RESERVOIR 1092	A 3104	01	KAWAIIHAU	1	22 08	159 23	830		7A			LIHUE PLANTATION
KAPAA STABLES 1104	A 3159	01	KAWAIIHAU	1	22 05	159 20	175		7A		C	LIHUE PLTN CO LTD
KEALIA 1112	A 3982	01	KAWAIIHAU	1	22 06	159 19	9		7A			LIHUE PLTN CO LTD
KEKAHA 944	4272	03	WAI MEA	3	21 58	159 43	9		BA		C	KEKAHA SUGAR CO LTD
KILAUEA 1134	A 4561	01	HANAIEI	1	22 13	159 25	320		7A		C	NICK RAPOZO
KILAUEA POINT 1133	4568	01	HANAIEI	1	22 14	159 24	180	7A	7A			MRS ELIZABETH MACIOLEK
KOLO 1033	4735	03	WAI MEA	3	22 04	159 46	36		7A			KEKAHA SUGAR CO LTD
KOLOA 936	A 4742	02	KOLOA	2	21 55	159 28	240		BA			MCBRYDE SUGAR CO
KOLOA LN (MAK) 940.1	4748	01	KAUAI	2	21 52	159 27	52	7A	7A			AUSCG LORAN STATION
KOLOA MAUKA 994	A 4750	02	KOLOA	2	21 57	159 29	640		7A			MCBRYDE SUGAR COMPANY
KUKUIULA 935	A 4950	02	KOLOA	2	21 54	159 30	100		6A			MC BRYDE SUG CO LTD
LIHUE VARIETY ST 10621A	5560	02	LIHUE	2	22 01	159 23	380		7A		C	LIHUE PLANTATION CO LTD
LIHUE 1020	A 5575	02	LIHUE	2	21 59	159 22	207		7A			LIHUE PLTN CO LTD
LIHUE WSO 1020.1 AP	R 5580	02	LIHUE	2	21 59	159 21	103	MID	MID	7AC	J	NATL WEATHER SERVICE
MAKAWELI 965	A 5864	03	WAI MEA	3	21 55	159 38	140		7A			OLOKELE SUGAR CO
MANA 1026	6082	03	WAI MEA	3	22 02	159 46	20	BA	BA			KEKAHA SUGAR CO LTD
MOHIHI UPR CROSS 1083	A 6433	01	WAI MEA	3	22 07	159 36	3500		MID			U S GEO SURVEY
MOLOAA 1145	A 6529	01	KAWAIIHAU	1	22 11	159 20	330		7A			THEODORE JAVELLANA JR
MOUNT WAIALEALE 1047	R 6565	03	WAI MEA	2	22 04	159 30	5148		MID			U. S. GEO. SURVEY
NIU RIDGE 1035	6850	03	WAI MEA	3	22 02	159 44	1250	6A	6A			KEKAHA SUGAR CO LTD
N WAILUA DITCH 1051	A 6888	02	LIHUE	2	22 04	159 28	1110		7A			LIHUE PLTN CO LTD
N WAILUA RIVER 1055	A 6893	02	KIHUE	2	22 04	159 26	650		MZ			LIHUE PLTN CO LTD
PH WAINIHA 1115	8155	01	HANAIEI	1	22 12	159 34	101		6A		C	MC BRYDE SUG CO LTD
PRINCEVILLE RANCH 1117	8165	01	HANAIEI	1	22 13	159 29	295		9A		C	PRINCEVILLE RANCH INC
PUEHU RIDGE 1040	8205	03	WAI MEA	3	22 01	159 42	1660		BA			KEKAHA SUGAR CO LTD
PUHI 1013	A 8217	02	LIHUE	2	21 58	159 24	329		BA			LIHUE PLANTATION CO
WAHIAWA 930	A 8941	02	KOLOA	2	21 54	159 34	215		7A		C	MC BRYDE SUG CO LTD
WAIAMI LOWER 1054	8958	02	LIHUE	2	22 01	159 27	565	6A	6A			LIHUE PLTN CO LTD
WAIAMI UPPER 1052	8966	02	LIHUE	2	22 01	159 28	780		6A			LIHUE PLTN CO LTD
WAIWA 943	9253	03	WAI MEA	3	21 59	159 43	10		8A			KEKAHA SUGAR CO LTD
WAILUA KAI 1065	A 9467	02	LIHUE	2	22 02	159 21	50		7A			LIHUE PLANTATION
WAI MEA 947	9629	03	WAI MEA	3	21 58	159 41	20		BA			KEKAHA SUGAR CO.
WEST LAWA 931	A 9955	02	KOLOA	2	21 54	159 31	210		6A			MC BRYDE SUG CO LTD
ISLAND OF OAHU												
AHIIMANU LOOP 839.12	0055	01	KOOLAUPOKO	1	21 26	157 51	320				C	OON MITCHELL
ALOHA STADIUM-HALAWA	0172	03	OAHU	3	21 23	157 56	40	BA	BA			ALOHA STADIUM
BERETANIA PUMPING STA	0211	02	HONOLULU	2	21 19	157 51	20		9A			BOARD OF WTR SUPPLY
B Y U LAIE 903.1	0240	01	KOOLAUPOKO	1	21 39	157 56	20	12M	12M			B Y U-HAWAII CAMPUS
CAMPBELL IND PK 702.5	0248	02	OAHU	3	21 19	158 07	10		8A			CHEVRON U S A INC
CAMP 84 807	A 0300	03	EWA	3	21 26	158 04	760		6A		C	OEL MONTE CORPORATION
COCONUT ISLAND 840.1	0350	01	KOOLAUPOKO	1	21 26	157 47	15		BA			H INST MARINE BIOLOGY
DOWSETT HIGHLDS 780.8	0438	02	HONOLULU	2	21 21	157 50	565				C	J.L. BANNING
EWA PLANTATION 741	0507	03	EWA	3	21 21	158 02	5	9A	7A			OAHU SUGAR COMPANY
HALAWA SHAFT 771.2	0964	02	HONOLULU	2	21 23	157 54	170				C	BOARD OF WATER SUPPLY
HAWAII KAI CRSE 724.19	1308	02	OAHU	2	21 18	157 39	21				C	HAWAII KAI GOLF COURSE
HELEMANO INTAKE 881	A 1384	05	WAILUA	5	21 33	158 00	1274		WI		C	WAILUA SUGAR CO. INC.
HOKULOA 725.2	A 1540	03	EWA	3	21 24	158 06	2220				C	H. V. VON HOLT
HONOLULU OBSERV 702.2	1918	03	EWA	3	21 19	158 00	5		9A	9A		NATIONAL WEATHER SERV
HONOLULU WSO 703 AP	1919	02	HONOLULU	2	21 20	157 55	7	MID	MIO		C J	NATL WEATHER SERVICE
KAA LAKEI 724.6	2269	02	HONOLULU	2	21 18	157 43	10				C	MRS. MILLIE ZAPATA
KAENA POINT 841.3	2410	04	WAILUA	4	21 34	158 15	1240		9A			U S AIR FORCE
KAHANA 883	A 2462	01	KOOLAUPOKO	1	21 31	157 54	800		WI			WAILUA WTR CO LTD

SEE REFERENCE NOTES FOLLOWING STATION INDEX



## STATION INDEX

HAWAII AND PACIFIC  
NOVEMBER 1977

STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES				OBSERVER	
								TEMP.	PRECIP.	EVAP.	SPECIAL (SEE NOTES)		
ISLAND OF OAHU													
KAHUKU 912	A 2570	01	KOOLAULOA	1	21 42	157 59	15					C	KIULIMA HOTEL
KAILUA FIRE STA 791.3	2683	01	KOOLAUPOKO	1	21 24	157 45	10		8A			C	KAILUA FIRE STATION
KALIHI RES SITE 777	R 2960	02	HONOLULU	2	21 23	157 50	910		M10				BOARO OF WTR SUPPLY
KANEHE MAUKA 781	3113	01	KOOLAUPOKO	1	21 25	157 49	325	7A	7A				STATE HOSPITAL
KAPALAMA 773	A 3268	02	HONOLULU	2	21 21	157 52	614		8A				KAMEHAMEHA SCHOOLS
KAWAIHAPAI 841	A 3734	05	WAIALUA	5	21 35	158 11	40		7A				WAIALUA SUGAR CO. INC.
KEMOO CAMP 8 855	A 4318	05	WAIALUA	5	21 33	158 05	725		7A				WAIALUA SUGAR CO. INC.
KOOLAU DAM 833	A 4766	05	WAIHAWA	5	21 30	157 58	1160		8A				C & F OFFICER HEOG
LULUKU 781.7	5655	01	KOOLAUPOKO	1	21 24	157 49	240					C	NATIONAL WEATHER SERV
MAKAHA PUMP 800.2	A 5782	04	OAHU	4	21 29	158 12	400		8A			C	CAPITAL INVESTMENT CO.
MAKAKILO 730.1													
MANOA 712.1	5789	03	OAHU	3	21 21	158 06	300		6A				NEAL ADAMS
MANOA LYON ARBORETUM	6122	02	HONOLULU	2	21 19	157 49	220		7A				CLOSED 10/31/77
MANOA TUNNEL 2 716	6128	02	OAHU	2	21 20	157 48	500	8A	8A				LYON ARBORETUM
MAUNAWILI 787.1	R 6130	02	HONOLULU	2	21 20	157 48	650		M10				BOARO OF WTR SUPPLY
MOANALUA 770	6222	01	KOOLAUPOKO	1	21 21	157 46	395					C	EXP. STA. H.S.P.A.
MOUNT KAALA 844	6395	02	HONOLULU	2	21 21	157 54	20		9A				JOHN A ROXBURGH
NUUANU RES 4 783	6553	04	WAIANAE	4	21 31	158 09	4015					C	FEDERAL AVIATION ADM
NUUANU RESERV 5 775	6928	02	HONOLULU	2	21 21	157 49	1048		M10				BOARO OF WTR SUPPLY
OPAEULA 870	A 6933	02	HONOLULU	2	21 21	157 50	410		W1				BOARO OF WTR SUPPLY
	A 7150	05	WAIALUA	5	21 34	158 02	1060	7A	7A			C	WAIALUA SUGAR CO. INC.
PAIKO DR 723.4													
PAL1 GOLF COURSE 788.1	7540	02	HONOLULU	2	21 17	157 44	10		6P				O L GRU88
PALOLO VALLEY 718	R 7656	01	OAHU	1	21 23	157 47	480		10A				CC DEPT PKS RECREATION
PAUOA FLATS 784	R 7664	02	HONOLULU	2	21 20	157 46	995		M10				BOARO OF WTR SUPPLY
PEARL COUNTRY CL 760.2	R 7810	02	HONOLULU	2	21 21	157 48	1640		M10				BOARO OF WTR SUPPLY
PUNALUU PUMP 905.2	7942	03	OAHU	3	21 23	157 56	120					C	PEARL COUNTRY CL8 OF HA
PUNCHBOWL CRATER 709	8314	01	KOOLAULOA	1	21 35	157 54	20					C	MRS DAVID DELAO
PUPUKA HEIGHTS 896.4	A 8316	02	HONOLULU	2	21 19	157 51	360		8A				NAT MEM CEMETERY
PUU MANAWAHUA 725.6	8342	01	WAIALUA	1	21 39	158 02	900					C	JACK N. WHEELER
TANTALUS 2 780.5	8500	03	OAHU	3	21 23	158 05	2080		8A				HUGH HAMILTON
	8738	02	HONOLULU	2	21 20	157 50	1325		7A				R. E. WHITE
UNIV OF HAWAII 713													
UPPER WAIHAWA 874.3	A 8815	02	HONOLULU	2	21 18	157 49	79		8A				DEPT OF GEOSCIENCE
WAIHAWA DAM 863	8838	05	OAHU	5	21 31	158 01	1115		6A				W 8 RUTHERFORD
WAIHOLE 837	A 8945	05	WAIHAWA	5	21 30	158 03	854		7A			C	WAIALUA SUGAR CO. INC.
WAIALAE KAHALA 715	A 8964	01	KOOLAUPOKO	1	21 28	157 53	745		8A			C	WAIHOLE WTR CO LTO
WAIALEE 896.3	9185	02	HONOLULU	2	21 17	157 47	40		7A				SPENCER TINKER
WAIALUA 847	9190	01	KOOLAULOA	1	21 41	158 02	33	8A	8A				WAIALEE LIVESK RES FARM
WAIANAE 798.2	A 9195	05	WAIALUA	5	21 35	158 07	32	7A	7A			C	WAIALUA SUGAR CO. INC.
WAIHAWA 836	A 9231	04	WAIANAE	4	21 27	158 11	10		7A				BEN MAYES
WAIKANE 885	A 9261	03	EWA	3	21 28	157 56	800		M0				WAIHOLE WTR CO LTO
	A 9340	01	KOOLAUPOKO	1	21 30	157 53	760		W1				WAIHOLE WTR CO LTO
WAIKIKI 717.2													
WAILUPE VLY SCH 723.6	9397	02	HONOLULU	2	21 16	157 49	10	8A	8A				HONOLULU ZOO
WAIMANALO EXP FARM	9500	02	HONOLULU	2	21 18	157 45	180					C	WAILUPE VALLEY SCHOOL
WAIMANALO NONOKI 795.2	9523	01	KOOLAUPOKO	1	21 20	157 43	60	7A	7A				WAIMANALO EXP FARM
WAIMANA 892	9534	01	OAHU	1	21 20	157 43	120					C	WAIMANALO EXP FARM
WAIKANE 892	A 9593	05	WAIALUA	5	21 38	158 04	330		7A			C	WAIALUA SUGAR CO INC
WAIKANE 750	A 9738	03	EWA	3	21 23	158 01	59		8A				WAIHOLE WATER COMPANY
WILHELMINA RISE 721	R 9980	02	HONOLULU	2	21 18	157 47	1100		M10				BOARO OF WTR SUPPLY
ISLAND OF MOLOKAI													
KALAUPAPA 563	A 2896	01	MOLOKAI	1	21 12	156 59	30		8A				KALAUPAPA SETTLEMENT
KAUNAKAKAI 536	3541	01	MOLOKAI	1	21 06	157 01	12		7A				MOLOKAI RANCH LTO
KAUNAKAKAI MAUKA 536.5	3547	01	MOLOKAI	1	21 06	157 01	70					C	MOLOKAI GENERAL HOSP.
KEONELELE PENS 551	A 4394	01	MOLOKAI	1	21 12	157 12	560		VAR				MOLOKAI RANCH, LTO.
KUALAPUU 534	A 4778	01	MOLOKAI	1	21 09	157 02	825		7A			C	OEL MONTE CORPORATION
MAUNALO 511	A 6190	01	MOLOKAI	1	21 08	157 13	1070		9A			C	MOLOKAI RANCH COMPANY
MOLOKAI AP 524	6534	01	MOLOKAI	1	21 09	157 06	450	8A	8A				ALOHA AIRLINES
PUU O HOKU RANCH 542.1	8549	01	MOLOKAI	1	21 09	156 44	700		6A			C	CHARLIE APIA (FOREMAN)
WAIKOLU 540	A 9404	01	MOLOKAI	1	21 08	156 55	3550		W1				MOLOKAI RANCH COMPANY
ISLAND OF LANAI													
KANEPUU 690	A 3130	01	LAHAINA	1	20 52	157 00	1650		W1				U S O A
KAUMALAPUU HARBOR 658	3461	01	LAHAINA	1	20 47	157 00	30		8A			C	OOLE COMPANY
LANAI AIRPORT 656	5275	01	LAHAINA	1	20 48	156 57	1300	8A	8A				HAWAIIAN AIR
LANAI CITY 672	A 5286	01	LAHAINA	1	20 50	156 55	1620	7A	7A			C	OOLE COMPANY
LANAIHALE 684	A 5301	01	LAHAINA	1	20 49	156 53	3370		W1				U S O A
MAHANA 694	A 5704	01	LAHAINA	1	20 52	156 55	1430		M0				U S O A
MALAEUA 676	A 6012	01	LAHAINA	1	20 46	156 55	1150		W1				U S O A
WAIKAEKUA 685	A 9021	01	LAHAINA	1	20 47	156 52	2000		WM				KOELE COMPANY

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AWAHI 252

A 0175 02 HANA

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VAR

ULUPALAKUA RANCH



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								TEMP.	PRECIP.	EVAP.	SPECIAL (SEE NOTES)	
ISLAND OF MAUI												
HAEARAU 477	A 0790	04	LAHAINA	4	20 57	156 36	2980		MZ			MAUI LANO-PINEAPPLE CO U OF H AGRIC EXP STA HALEAKALA RANCH CO HALEAKALA NAT PARK MAUI LANO-PINEAPPLE CO HAWAIIAN COM & SUG CO HARRY HASEGAWA ROYAL HAWAIIAN AIRLINES HALEAKALA NATL PARK RG5 MAUI LANO-PINEAPPLE CO
HALEAKALA 8 E 5 434	A 0995	01	MAKAWAO	1	20 51	156 18	2100		7A			
HALEAKALA RANCH 432	A 0999	01	MAKAWAO	1	20 50	156 19	1850		8A			
HALEAKALA R5 338	1004	02	MAKAWAO	2	20 46	156 15	7030	8A	8A			
HALIIMAILE 423	A 1075	01	MAKAWAO	1	20 52	156 21	1070		3A			
HAMAKUAPOKO 485	1086	01	MAKAWAO	1	20 55	156 21	320		5A			
HANA 354	A 1122	01	HANA	1	20 45	155 59	120		8A		C	
HANA AIRPORT 355	1125	01	HANA	1	20 48	156 01	61		8A			
HOLUA CABIN 259.5	A 1552	02	MAKAWAO	2	20 45	156 13	6930		MO			
HONOKOHU 480	A 1882	04	LAHAINA	4	20 58	156 36	870		MO			
HONOKOHU 493	A 1887	04	LAHAINA	4	21 00	156 39	135		6A			MAUI LANO-PINEAPPLE CO MAUI LANO-PINEAPPLE CO HALEAKALA RANCH CO STATE DIVISION OF PARKS AMFAC PROPERTIES INC PIONEER MILL CO LTO NATL WEATHER SERVICE E MAUI IRR CO LTO E MAUI IRR CO LTO PIONEER MILL CO LTO
HONOLUA FIELO 49 494	A 1914	04	LAHAINA	4	21 01	156 38	125		MZ			
HONOMANU GULCH 341	A 1935	01	MAKAWAO	1	20 47	156 14	6280		MO			
IAO NEEDLE 387.2	2208	03	WAILUKU	3	20 53	156 33	1080				C	
KANAPALI AP 453.1	2307	04	LAHAINA	4	20 56	156 42	8	8A	8A			
KAHOMA INTAKE 374	A 2552	04	LAHAINA	4	20 54	156 38	2000		WI			
KAHULUI W50 398 AP	R 2572	03	WAILUKU	3	20 54	156 26	48	MIO	MIO		C J	
KAILILI 436	A 2630	01	MAKAWAO	1	20 51	156 16	2520		MO			
KAILUA 446	2679	01	MAKAWAO	1	20 54	156 13	700	7A	7A			
KAUULA INTAKE 375	A 3433	04	LAHAINA	4	20 53	156 38	1585		WI			
KAUPO RANCH HOUSE 259	3576	02	HANA	2	20 39	156 08	1020				C	KAUPO RANCH HAWAIIAN COM & SUG CO E MAUI IRR CO LTO ALLEN L CORELL HAWAIIAN COM & SUG CO HANA RANCH-KIPAHULU SEC MAUI LANO-PINEAPPLE CO KULA SANATORIUM PIONEER MILL CO LTO PIONEER MILL CO LTO
KEAHUA 410	3910	03	MAKAWAO	3	20 52	156 23	480		5A			
KEANAE 346	A 4091	01	HANA	1	20 50	156 10	980		MO			
KEAWAKAPU BEACH 260.2	4193	02	MAKAWAO	2	20 42	156 27	20	8A	8A		C	
KIHEI 311	4489	03	WAILUKU	3	20 47	156 27	90		7A			
KIPAHULU 258	4634	01	HANA	1	20 39	156 04	260		7A			
KUKUI 380	A 4887	04	LAHAINA	4	20 54	156 35	5788		MZ			
KULA SANATORIUM 267	5006	02	MAKAWAO	2	20 42	156 22	3004	7A	7A			
LAHAINA 361	5177	04	LAHAINA	4	20 53	156 41	45	7A	7A		C	
LAUNIUPOKO INTAKE 376	A 5404	04	LAHAINA	4	20 51	156 37	1280		WI			
LAUNIUPOKO VILLAGE 372A	5408	04	LAHAINA	4	20 51	156 39	220		7A			PIONEER MILL CO LTO E MAUI IRR CO LTO PIONEER MILL CO LTO MAUI LANO-PINEAPPLE CO MAUI LANO-PINEAPPLE CO EAST MAUI IRRIGATION CO PIONEER MILL CO LTO E MAUI IRR CO LTO HAWAIIAN COM & SUG CO KAUPO RANCH CO.
LUPU UPPER 442	A 5665	01	MAKAWAO	1	20 53	156 15	1240		MO			
MAHINAHINA 466	A 5715	04	LAHAINA	4	20 57	156 40	715		7A			
MOKUPEA 475	A 6521	04	LAHAINA	4	20 59	156 37	1290		MZ			
NAKALELE FIELO 60 497	A 6645	04	LAHAINA	4	21 02	156 36	340	VAR				
OLINOA 332	A 7040	01	MAKAWAO	1	20 48	156 17	4127	VAR				
OLOWALU 296.1	7059	04	LAHAINA	4	20 49	156 37	20		7A			
PAAKEA 350	7194	01	HANA	1	20 49	156 07	1260	VAR			C	
PAIA 406	7566	01	WAILUKU	1	20 55	156 23	170		6A			
PANILEIHULU 259.2	A 7674	02	HANA	2	20 41	156 08	3570		MO			
PEAHI 488.6	7952	01	MAUI	1	20 54	156 17	830		WI		C	BERNARD RUPLINGER WAILUKU SUGAR CO STATE DIV OF FORESTRY E MAUI IRR CO LTO HAWAIIAN COM & SUG CO EAST MAUI IRRIGATION CO HAWAIIAN COM & SUG CO KAONOULU RANCH UH MAUI AGRI RESCH CNTR HALEAKALA RANCH CO
POHAKEA BRIDGE 307.2	A 8060	03	WAILUKU	3	20 49	156 31	167		6A			
POLIPOLI SPRINGS 267.2A	8070	02	MAKAWAO	2	20 41	156 20	6150	VAR				
PUOHOKAMOA 2 343	A 8336	01	HANA	1	20 50	156 13	2980		MO			
PUUNENE 396	8543	03	WAILUKU	3	20 53	156 27	60		7A			
PUU PAKI 352	A 8553	01	HANA	1	20 46	156 03	2160				5	
SPRECKELSVILLE 400.2	8688	03	WAILUKU	3	20 54	156 25	85		8A			
TWIN GATES 261.3	A 8742	03	MAKAWAO	3	20 46	156 23	1310	VAR				
UH AGRI RES CNTR 324.5	8743	02	MAUI	2	20 46	156 20	3050				C	
UKULELE 333	A 8744	01	MAKAWAO	1	20 48	156 15	5230		MO			
UKUMEHAME 301	A 8750	04	LAHAINA	4	20 48	156 35	75		7A			PIONEER MILL CO LTO ULUPALAKUA RCH CO LTO PIONEER MILL CO LTO WAILUKU SUGAR CO WAILUKU SUGAR CO E MAUI IRR CO LTO EAST MAUI IRRIGATION CO WAILUKU SUGAR CO EAST MAUI IRRIGATION CO WAILUKU SUGAR COMPANY
ULUPALAKUA RANCH 250	8760	02	MAKAWAO	2	20 39	156 24	1900		8A		C	
WAHIKULI 364	A 8955	04	LAHAINA	4	20 54	156 40	580		8A			
WAIIEHU CAMP 484	A 9275	03	WAILUKU	3	20 55	156 31	320		6A			
WAIHEE VALLEY 482	A 9315	04	WAILUKU	4	20 57	156 32	300		6A			
WAIKAMOI 449	A 9332	01	HANA	1	20 52	156 12	1200		MO			
WAIKAMOI OAM 336	A 9335	01	MAKAWAO	1	20 49	156 14	4320	VAR			C	
WAIKAPU 390	A 9376	03	WAILUKU	3	20 51	156 31	370		6A			
WAILUA IKI 348	A 9460	01	HANA	1	20 48	156 09	2630				5	
WAILUKU 386	A 9484	03	WAILUKU	3	20 54	156 30	180	7A	7A			
WAIOPAI RANCH 256	A 9765	02	HANA	2	20 38	156 12	220		OC			HALEAKALA RANCH CO
ISLAND OF HAWAII												
AHUA UMI 75	A 0040	05	N KONA	5	19 38	155 47	5220		MO			W.H. GREENWELL RANCH NAT HISTORICAL PARK HONOKAA SUGAR CO MAUNA KEA SUGAR CO
CITY OF REFUGE 27.4	0344	04	S KONA	4	19 25	155 55	15		9A			
HAUNA 214	0840	01	HAMAKUA	1	20 06	155 28	461		8A			
HAKALAU 142	0905	02	S HILO	2	19 54	155 08	105		7A			

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ISLAND OF HAWAII												
HALEMAUMAU 52	A 1033	03	KAU	3	19 24	155 17	3648		MO			HAWAII NAT PARK
HALEPOHAKU 111	A 1065	02	HAMAKUA	2	19 46	155 28	9220		3P			MAUNA KEA OBSERVATORY
HA'S FARM 85.3	1270	02	HAWAII	2	19 40	155 06	580		8A			RICHARD HA JR
HAWAII VOLCANOES NP HQ 54	1303	02	KAU	2	19 26	155 16	3971	8A	8A			HA VOLCANOES NAT PK HQS
HAWI 168	A 1339	01	N KOHALA	1	20 14	155 50	580		6A			K L 80NO
HILO COUNTRY CLUB 86.6	1487	02	HAWAII	2	19 41	155 10	1600		7A			REX WILLS II
HILO WSO AP 87	R 1492	02	S HILO	2	19 43	155 04	36	MIO	MIO		J	NATL WEATHER SERVICE
HOLUALOA 70	A 1557	04	N KONA	4	19 38	155 55	3220		MO			STATE DIV OF FORESTRY
HOLUALOA BEACH 68	A 1562	04	N KONA	4	19 37	155 59	14		7A			CAPT COOK CATTLE CO
HONANAU 27	1665	04	S KONA	4	19 27	155 53	1089		7A			SHIGETO L TANAKA
HONOHINA 137	1701	02	N HILO	2	19 56	155 09	300		7A			MAUNA KEA SUGAR CO
HONOMU MAUKA 138	1960	02	S HILO	2	19 51	155 09	1100		7A			MAUNA KEA SUGAR CO
HONUAULA 71	A 2047	04	N KONA	4	19 40	155 53	6250		MO			STATE DIV OF FORESTRY
HUALALAI 72	A 2151	04	N KONA	4	19 42	155 52	8190		MO			STATE DIV OF FORESTRY
HUEHUE 92.1	A 2156	04	N KONA	4	19 45	155 59	1960		6A			HUEHUE RANCH
KAAALA IKI 12	A 2249	03	KAU	3	19 08	155 34	1340		WI			KAU SUGAR COMPANY, INC
KAAWALO 29	A 2327	04	SOUTH KONA	4	19 30	155 55	1340		8A			CAPT COOK INVESTMENT CO
KAHIAWAI MAUKA 3.8	2512	03	KAU	3	19 08	155 46	4120					RUSSELL P. SMITH
KAHUA RANCH HOTRS	2600	01	HAWAII	1	20 08	155 48	3240					KAHUA RANCH COMPANY
KAINALIU 73.2	2751	04	N KONA	4	19 32	155 56	1500	7A	7A			KONA EXPERIMENT STA
KALAOA 69.22	2887	04	HAWAII	4	19 44	155 59	2000		8A			FLOYD W MC COY
KALAPANA I 67.8	2894	02	S HILO	2	19 20	155 02	10		VAR			HAWAII VOLCANOES NAT PK
KAMAHOA 2 5	A 3048	03	KAU	3	19 02	155 40	1375		WI			PARKER RCH-KAPAPALA DIV
KAMUELA 192.2	3077	01	S KOHALA	1	20 01	155 40	2670	6A	6A			PARKER RANCH
KAPAPALA RANCH 36	A 3300	03	KAU	3	19 17	155 27	2140		6A			PARKER RCH-KAPAPALA DIV
KAPOHO BEACH 93.11	3368	02	HAWAII	1	19 30	154 49	10	8A	8A			H E MC NICHOLS
KAPOHO LANDING 93.5	A 3369	02	PUNA	2	19 30	154 52	290		VAR			DEPT OF PUBLIC WORKS
KAWAINUI LOWER 193	A 3770	01	HAMAKUA	1	20 05	155 39	1080		WI			HONOKAA SUGAR CO
KEAAU 92	3872	02	PUNA	2	19 38	155 02	285	8A	8A			PUNA SUGAR CO
KERIWA CAMP 22.1	3925	03	KAU	3	19 14	155 29	1700					KAU SUGAR COMPANY, INC
KEALAKEKUA 26.2	3977	04	S KONA	4	19 30	155 55	1450					HERBERT KANE
KEANAKOLU CAMP 124.2	4098	02	HAMAKUA	2	19 55	155 21	5280					STATE DIV OF FORESTRY
KIOLAKAA A & F 6	A 4625	03	KAU	3	19 04	155 38	1925		MO			STATE DIV OF FORESTRY
KIPA 89.2	A 4632	02	S HILO	2	19 44	155 09	1490		WI			MAUNA KEA SUGAR CO.
KOHALA MISSION 175.1	4680	01	N KOHALA	1	20 14	155 48	537	7A	7A			K. LYMAN 80NO
KOIAWE LOWER 196	A 4685	01	HAMAKUA	1	20 05	155 38	720		WI			HONOKAA SUGAR CO
KONA (KAILUA) 68.3	A 4764	04	N KONA	4	19 39	156 00	30	8A	8A			CHEVRON USA
KONA VILLAGE 93.8	4765	04	N KONA	4	19 50	155 59	20		8A			KONA VILLAGE RESORT HTL
KUKAIAU 222	4815	01	HAMAKUA	1	20 02	155 21	840		6A			LAUPAHOEHOE SUGAR CO
KUKUIHALE HIC 199	4928	01	HAMAKUA	1	20 07	155 35	980		6A			HONOKAA SUGAR CO
KUKUIHALE MILL 206	A 4938	01	HAMAKUA	1	20 08	155 34	300		6A			HONOKAA SUGAR CO
KULANI CAMP 79	5011	02	S HILO	2	19 33	155 18	5170	8A	8A			ST DEPT OF SOCIAL SER
KULANI MAUKA 76	A 5018	05	N HILO	5	19 35	155 27	8300		WI			MAUNA LOA OBS.
KULANI SCHOOL SITE 78 A	5021	02	S HILO	2	19 35	155 20	5735		WI			ST DEPT OF SOCIAL SER
LALAMILLO FLO OFF 191.1	5260	01	S KOHALA	1	20 01	155 41	2615					STATE DEPT OF L&N RES
LANIHAU 68.2	5330	04	N KONA	4	19 40	155 58	1530		7A			KONA EXPERIMENT STATION
LAVA TREE PARK 66.1	5460	02	PUNA	2	19 29	154 54	650					STATE DIV OF PARKS
MAKAHALAU 103	5761	02	HAWAII	1	19 59	155 33	3820		6A			PARKER RANCH
MANUKA 2	A 6134	03	KAU	3	19 07	155 50	1760		WI			STATE DIVISION OF PARKS
MAUNA KEA OBS 111.2	6183	02	HAWAII	2	19 49	155 28	3770		7P			MAUNA KEA OBSERVATORY
MAUNA LOA SLOPE OBS	6198	05	HAMAKUA	5	19 32	155 35	1150	MIO	MIO			MAUNA LOA OBSERVATORY
MIDDLE HOLUALOA 68.1	A 6268	04	N KONA	4	19 37	155 58	500		7A			CAPT COOK CATTLE CO
MIDDLE PEN 147.1	A 6270	01	N KOHALA	1	20 06	155 50	1380		VAR			KAHUA RANCH
MORULA 18	A 6407	03	KAU	3	19 11	155 30	600					PARKER RCH-KAPAPALA DIV
MOUNTAIN VIEW 91	6552	02	PUNA	2	19 33	155 07	1530	6A	6A			PUNA SUGAR CO
NAALEHU 14	A 6588	03	KAU	3	19 04	155 35	800	8A	8A			KAU SUGAR COMPANY
NAPOOPOO 28	A 6697	04	S KONA	4	19 28	155 55	395		7A			KONA EXPERIMENT STA
OOKALA 223	7131	02	N HILO	2	20 01	155 17	430	7A	7A			LAUPAHOEHOE SUGAR CO
OPIHIHALE 2 24.1	7166	04	S KONA	4	19 16	155 53	1270	7A	7A			MRS LORMA TRUMAN
ORCHID LAND EST 91.5	A 7185	02	PUNA	2	19 34	155 00	445		VAR			BOARD OF WATER SUPPLY
PAUHAU 217	7204	01	HAMAKUA	1	20 05	155 26	415		8A			HONOKAA SUGAR COMPANY
PAUHILO 221	7312	01	HAMAKUA	1	20 03	155 22	800		7A			LAUPAHOEHOE SUGAR CO
PAHALA 21	A 7421	03	KAU	3	19 12	155 29	870	8A	6A			KAU SUGAR COMPANY, INC
PAHOA 65	7457	02	PUNA	2	19 30	154 57	670		6A			PUN SUGAR COMPANY
PAKAO 37	A 7643	03	KAU	3	19 22	155 28	5000		MO			PARKER RCH-KAPAPALA DIV
PAPAIOU 144.1	7711	02	S HILO	2	19 47	155 06	260		7A			MAUNA KEA SUGAR CO
PAPAIOU MAUKA 140.1	7721	02	S HILO	2	19 47	155 08	1270		7A			MAUNA KEA SUGAR CO

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								TEMP.	PRECIP.	EVAP.	SPECIAL (SEE NOTES)	
ISLAND OF HAWAII												
PIIHONUA 89	A 8051	02	5 HILO	2	19 44	155 10	1730		MO			STATE DIV OF FORESTRY STATE DIVISION OF PARKS SUPT PUU HEIAU-NHS W.H. GREENWELL RANCH PUU WAAWAA RANCH CO BOARD OF WTR SUPPLY MRS CAROLYN CARLSON PARKER RCH-KAPAPALA DIV U S COAST GUARD SHINICHI KANESHIRO
POHAKULOA 107	A 8063	02	HAMAKUA	2	19 45	155 32	6511		WI		C	
PUUKOHOLA HEIAU 98.1	8422	05	HAWAII	5	20 02	155 50	140	8A	8A			
PUU LEHUA 73	A 8460	04	N KONA	4	19 34	155 49	4880		MO			
PUU WAAWAA 94.1	A 8555	05	N KONA	5	19 47	155 51	2520		7A		C	
SAADDLE ROAD 1 84	A 8590	02	5 HILO	2	19 42	155 12	2340		WM			
SOUTH KONA 2.31	8650	03	HAWAII	3	19 06	155 45	2650	8A	8A			
SOUTH POINT CORRAL 3	A 8675	03	KAU	3	18 57	155 41	500		WI			
UPOLU POINT USCG 159.2	8830	01	N KOHALA	1	20 15	155 53	61	8A	2P			
WAIKAE 500 88.2	9025	02	5 HILO	2	19 40	155 08	1050		7A			
WAIKALOA-8015 CAS 95.8	9142	04	HAWAII	5	19 56	155 48	900		8A			8015 CASCADES WA CONST
CLOSED STATIONS ISLAND OF OAHU												
MANOA 712.1	6122	02	HONOLULU	2	21 19	157 49	220		7A			CLOSED 10/31/77

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HAWAII AND PACIFIC  
NOVEMBER 1977

STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES				OBSERVER
								TEMP.	PRECIP.	EVAP.	SPECIAL (SEE NOTES)	
PACIFIC												
EAST OF 180TH MERIDIAN												
ATU'U	4060	03	TUTUILA		14 16S	170 41W	265		4P			MARIST BROTHERS
CANTON ISLAND	4101	02	PHOENIX IS		2 46N	171 43W	8	9A	9A			ITT/FEDERAL ELEC CORP
FAGA ALU RESERVOIR	4135	03	AMER SAMOA		14 18S	170 42W	820		8A			PUBLIC WORKS
FALEASAO VILLAGE	4248	03	TA'U'MAN		14 14S	169 31W	16		8A			SOLOMULI MALU'IA
JOHNSTON IS WSO AP	R 4320	01	LINE ISLANDS		16 44N	169 31W	10	MIO	MIO	SP	J	NATL WEATHER SERVICE
LEONE	4397	03	TUTUILA		14 21S	170 47W	20	6P	6P			ST THERESA SCHOOL
FRENCH FRIGATE SHOALS	4401	07			23 52N	166 17W	6	8P	8A			U S COAST GUARD
MIDWAY SAND ISLAND	4490	07			28 13N	177 21W	10	MIO	MIO			U S NAVY
PAGO PAGO WSO AP	R 4690	03	AMER SAMOA		14 20S	170 43W	12	MIO	MIO		J	NATL WEATHER SERVICE
WESTERN PACIFIC ISL. NORTH OF 12 N												
ANDERSEN AFB GUAM	\$3 4025	03	MARIANNA IS		13 35N	144 SSE	624	MIO	MIO			AIR WEATHER SERVICE
CLARK AFB LUZON	\$3 4100	06	PHILIPPINE I		15 11N	120 33E	475	MIO	MIO			U S AIR FORCE
GUAM NAS	4226	03	MARIANNA IS		13 29N	144 48E	254	MIO	MIO			U S NAVY
GUAM WSMO	R 4229	03	MARIANNA IS		13 33N	144 50E	361	10A	10A	6P	J	NATL WEATHER SERVICE
MANGILAO	4468	03	GUAM		13 27N	144 49E	60		7A			GUAM AGRICULTURAL STA
ROTA	4800	03	MARIANNA IS		14 08N	145 09E	47		8A			DIST ADMINISTRATOR
SAIPAN LORAN	4860	03	MARIANNA IS		15 08N	145 42E	9	10A	10A			U S C G LORAN STATION
WAKE ISLAND WSO AP	R 4901	01	WAKE ISLAND		19 17N	166 39E	12	MIO	MIO		J	NATL WEATHER SERVICE
CAROLINE AND MARSHALL ISLANDS												
ANGUAR	4030	02	CAROLINE IS		6 55N	134 09E	15		8A			USCG LORAN STATION
ENIWETAK	4165	01	MARSHALL IS.		11 21N	162 21E	10	MIO	MIO			U S COAST GUARD
FALALOP I. ULITHI	4185	02	CAROLINE IS		10 02N	139 48E	6	9A	9A			PRINCIPAL-ULITHI H-SCH
KAPINGAMARANGI ATOLL	4325	01	PONAPE		1 05N	154 48E	10	MIO	MIO			ERSIN HAQUET
KOROR WSO	R 4351	02	CAROLINE IS		7 20N	134 29E	94	MIO	MIO		J	NATL WEATHER SERVICE
KWAJALEIN MISSILE RGN	R 4375	01	MARSHALL IS		8 44N	167 44E	7	12M	12M		J	KMR WEATHER SERVICE
LELE I. KUSAIE	4395	02	CAROLINE IS		5 20N	163 02E	7	MIO	MIO			JULIAN E ROBERT
MAJURO WSO AP	R 4460	02	MARSHALL IS		7 05N	171 23E	10	MIO	MIO		J	NATL WEATHER SERVICE
METALANIM	4482	02	PONAPE		6 51N	158 19E	30	6P	6P			REV E. A. SOUCIE
MOKIL ATOLL	4490	02	PONAPE DIST.		6 41N	159 47E	27		5P			ESHIAM BEN
NGASANG.8ABELTHUAP	4580	01	PALAU ISLAND		7 38N	134 39E	10		8A			BETHANIA SEMINARY
PONAPE WSO	R 4751	02	CAROLINE IS		6 58N	158 13E	123	MIO	MIO		J	NATL WEATHER SERVICE
SATAWAN ATOLL	4814	02	CAROLINE IS		5 20N	153 44E	9	MIO	MIO			ANTER EKO
TRUK. MOEN I. WSO AP	R 4851	02	CAROLINE IS		7 28N	151 51E	5	MIO	MIO		J	NATL WEATHER SERVICE
WOLEAI ATOLL	4911	01	CAROLINE IS		7 23N	143 55E	7	MIO	MIO			HASUGULIMAR/HALEYEMAI
YAP WSO AP	R 4951	02	CAROLINE IS		9 29N	138 05E	44	MIO	MIO		J	NATL WEATHER SERVICE

SEE REFERENCE NOTES FOLLOWING STATION INDEX



# REFERENCE NOTES

HAWAII AND PACIFIC

Additional information regarding the climates of Hawaii and the Pacific Ocean Area may be obtained by writing to the National Climatic Center, Federal Building, Asheville, N.C. 28801, or to any National Weather Service Office near you. Additional precipitation data for Hawaii are contained in "HOURLY PRECIPITATION DATA HAWAII."

**DIMENSIONAL UNITS:** Unless otherwise indicated, dimensional units used in this bulletin are: Temperature in °F., precipitation and evaporation in inches, and wind movement in miles. In "Supplemental Data" table directions entered in figures are tens of degrees. Resultant wind is the vector sum of wind directions and speeds divided by the number of observations.

**OBSERVATION TIME:** Data in the "Monthly Extremes," "Daily Precipitation" table, "Daily Temperature" table, and "Evaporation and Wind" table are for the 24 hours ending at time of observation unless indicated otherwise by reference letters in the Station Index. The Station Index shows observation time in local standard time.

**EVAPORATION** is measured in the standard Weather Service-type pan of 4-foot diameter unless otherwise noted below in the Evaporation and Wind table. Max and Min values in the Evaporation and Wind table are extremes of temperature of water in pan as recorded during 24 hours ending at time of observation. Wind is the total wind movement in miles over the evaporation pan as determined by a continuous anemometer recorder located 6-8 inches above the pan.

**NORMALS** for all stations are climatological standard normals based on the period 1941-1970.

**STATION NAMES:** Hawaii state key numbers are included following station names in the several tables.

**LATE REPORTS AND CORRECTIONS** will be carried only in the June and December issues of this bulletin.

**INTERPOLATED VALUES** for monthly precipitation totals may be found in the annual issue of this publication.

**IN THE DATA TABLES THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING:**

- No record in the "Supplemental Data" table, "Daily Precipitation" table, "Evaporation and Wind" table, and the Station Index.
- No record in the "Monthly Summarized Data" table and the "Daily Temperature" table is indicated by no entry.
- + And also on an earlier date or dates.
- ++ Highest observed one minute windspeed. This station is not equipped with an instrument to measure fastest mile data.
- \* Amount included in following measurement, time distribution unknown.
- ‡ Extreme occurred at station with incomplete data which may have been exceeded.
- A The letter "A" shown following station name in "Monthly Summarized Data" table, "Daily Precipitation" table, and "Station Index," indicates amount carried in the "Total" column is for the period from last measurement of a preceding month through the last measurement of the current month. See "Daily Precipitation" table of this and previous bulletins for dates of measurement. Where gages are read only once monthly, measurements made on the first of a month are credited to the last day of the preceding month.
- B Adjusted to a full month.
- M One or more days of record missing; if average value is entered, less than 10 days record is missing. See "Daily Temperature" table for detailed daily record.
- R Amounts from recording gage.
- T Trace, an amount too small to measure.
- V Includes total for previous month.

**IN THE STATION INDEX THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING:**

- AR Observation made after rain.
- C In Special Column of Station Index indicates Recording Rain Gage Station. Hourly Precipitation values are processed for special purposes, and are published later in the "Hourly Precipitation Data" bulletin. If daily amounts are published in "Monthly Summarized Data" bulletin they are from a separate non-recording gage, except where indicated by reference 'R'. Such amounts may differ from amounts published from the recording gage in the "Hourly Precipitation Data" bulletin.
- J "Supplemental Data" table.
- MO Gage read once monthly; usually on the last day.
- OC Gage readings at periods varying from a few weeks to several months.
- S Storage precipitation station. Precipitation measurements, made at irregular intervals, are published in the annual issue of this publication, beginning with the 1977 data. Prior data are found in the "Storage-Gage Precipitation Data" Bulletin, which was discontinued with the 1976 issue.
- SS Observation time is near sunset.
- VAR Observation time is variable.
- WI Gage read weekly or irregularly only.
- WM Gage read weekly and last day of month.
- # Thermometers are generally exposed in a shelter located a few feet above sod-covered ground; however, this reference indicates that the thermometers are exposed in a shelter located on the roof of a building.
- \$3 Maximum and minimum temperatures are the highest and lowest hourly readings for each day.
- ‡ DRAINAGE CODE: KAUAI: 1-NORTHERN 2-SOUTHEASTERN 3-SOUTHWESTERN OAHU: 1-WINDWARD KOOLAU 2-HONOLULU 3-SOUTH CENTRAL 4-WESTERN 5-NORTH CENTRAL MOLOKAI: 1-(NO INTRA-ISLAND DIVISIONS) LANAI: 1-(NO INTRA-ISLAND DIVISIONS) MAUI: 1-NORTHEASTERN 2-SOUTHERN 3-CENTRAL 4-WESTERN HAWAII: 1-NORTHERN 2-EASTERN 3-SOUTHERN 4-WESTERN S-CENTRAL

Stations appearing in the tables with no data were either missing or received too late to be included in this issue.

The Pacific includes stations in the Trust Territory of the Pacific Islands, Territory of Guam, American Samoa, and other scattered islands and atolls.

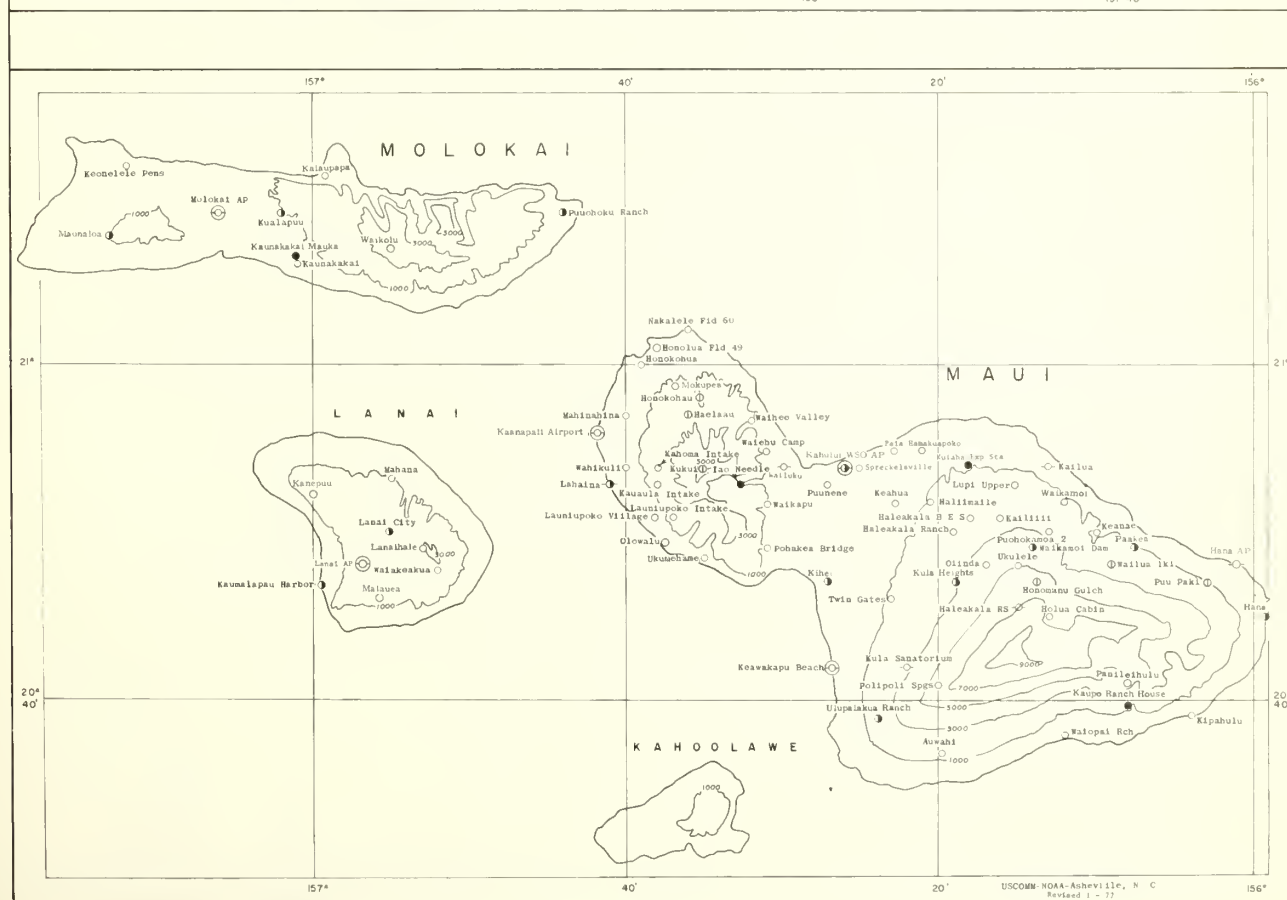
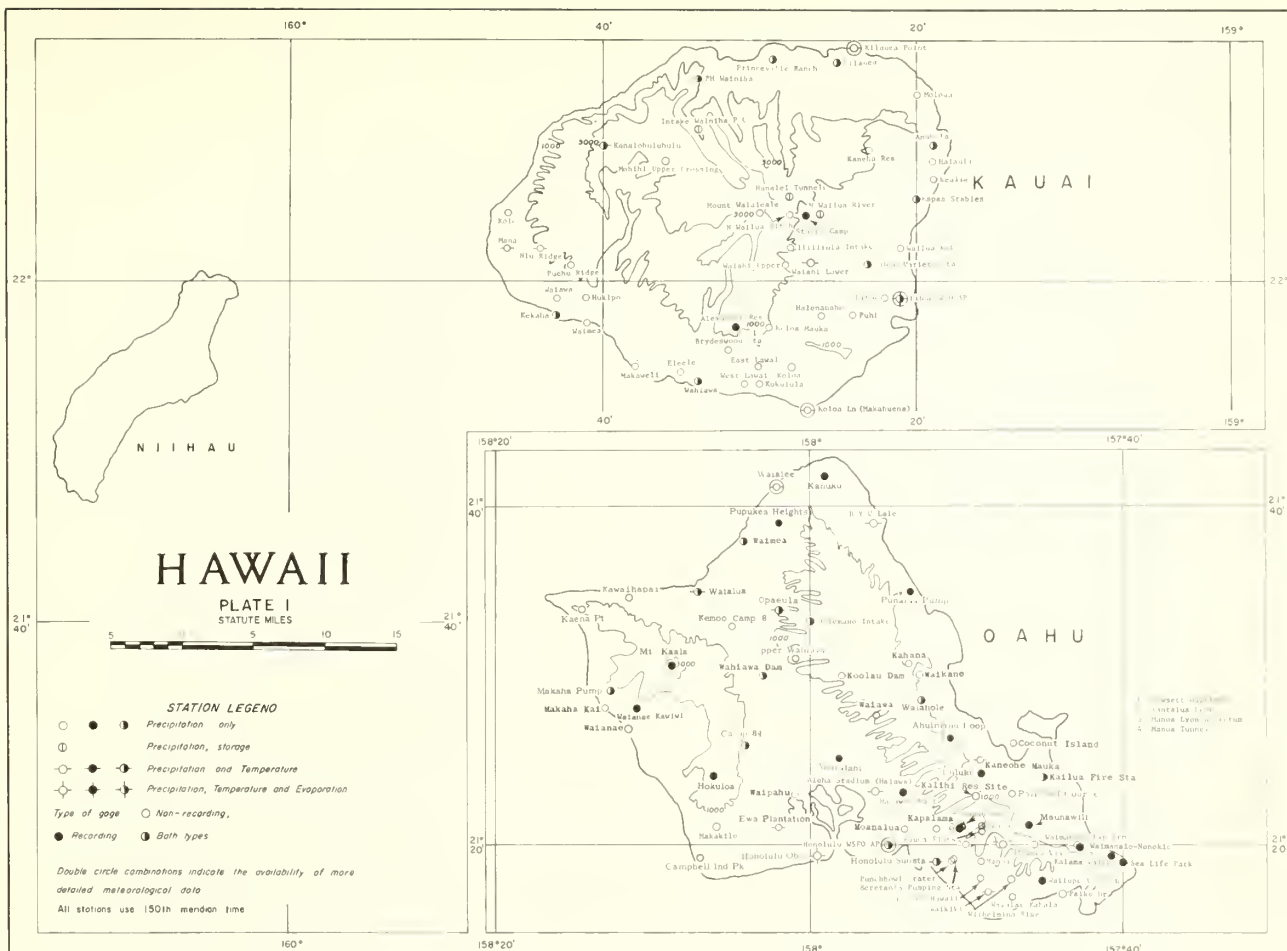
General weather conditions in the U.S. for each month are described in the CLIMATOLOGICAL DATA NATIONAL SUMMARY and STORM DATA.

Information concerning the history of changes in locations, elevations, exposure, etc., of substations through 1957 may be found in the publication "Substation History" for this State, price 40 cents. Similar information for regular National Weather Service Offices may be found in the latest annual issue of Local Climatological Data, price 20 cents. These publications may be obtained from the National Climatic Center at the address shown above.

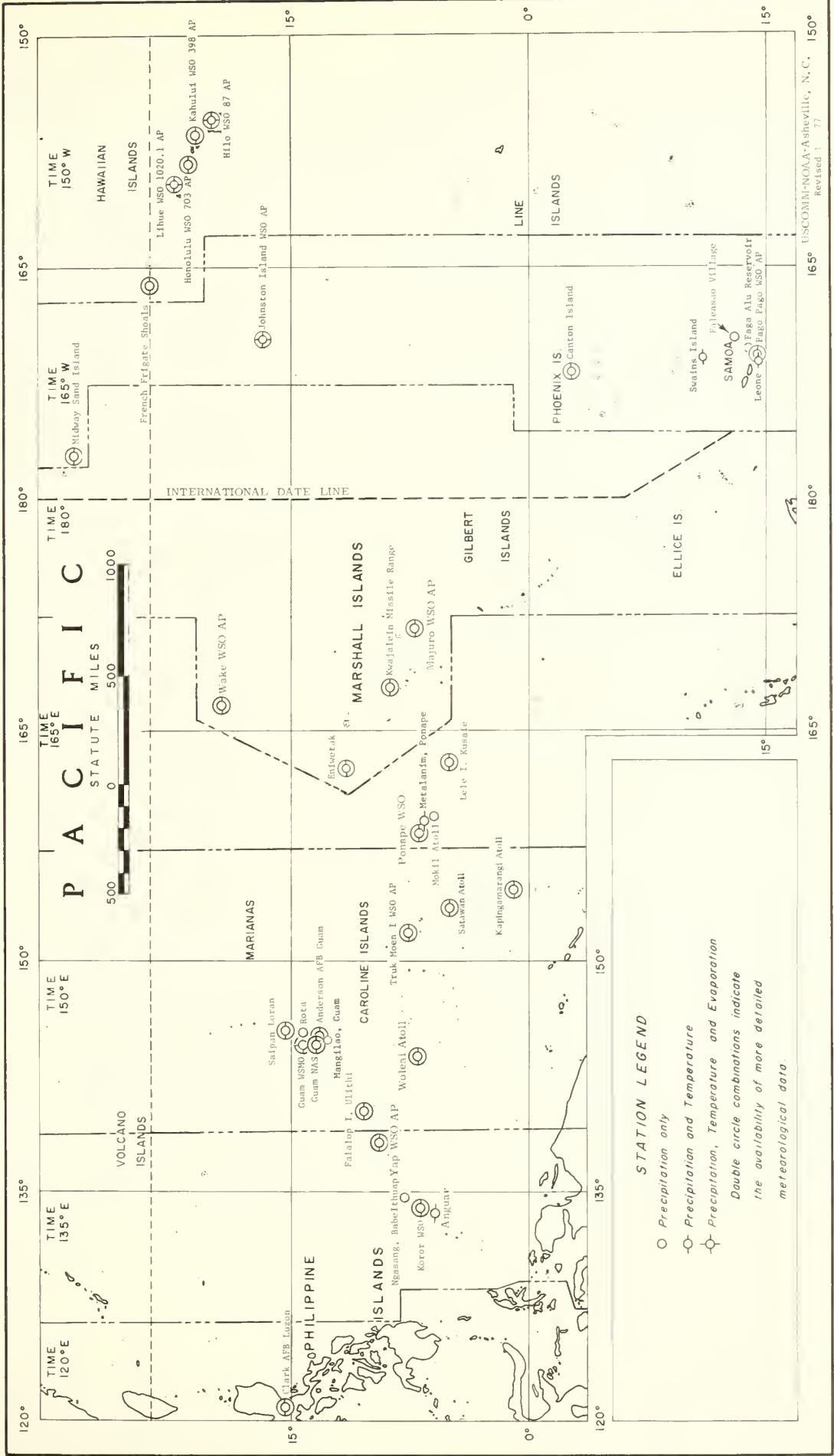
Subscription Price: \$5.10 a year for each section including annual summary; \$5.55 additional for foreign mailing; 40¢ single copy; 30¢ annual summary. Make checks payable to Department of Commerce, NOAA; send payments and orders to: National Climatic Center, Federal Building, Asheville, N. C. 28801. Attn: Publications.

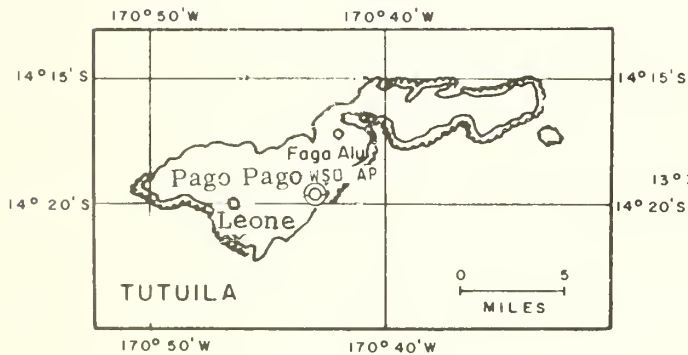
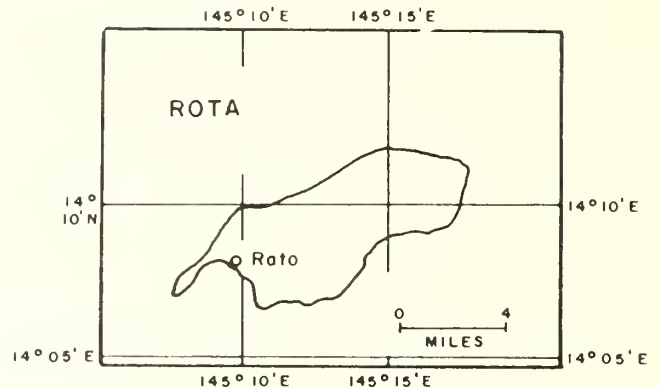
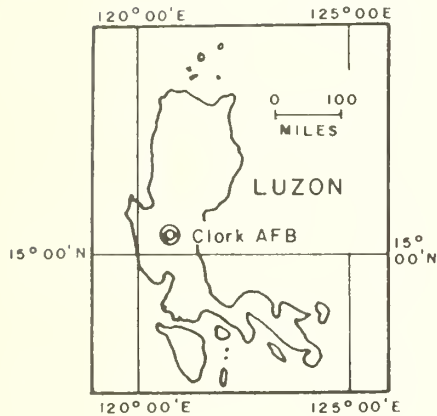
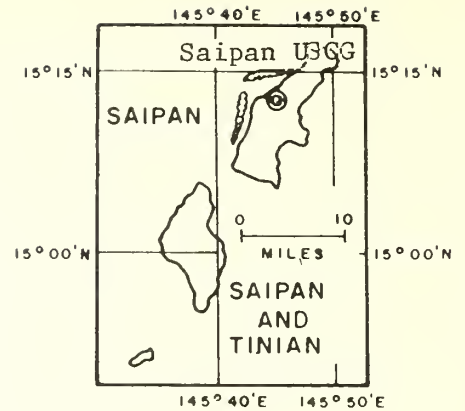
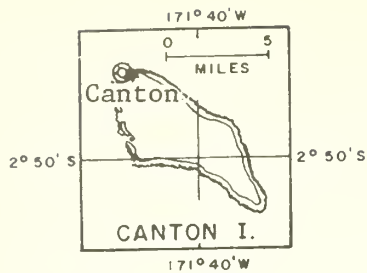
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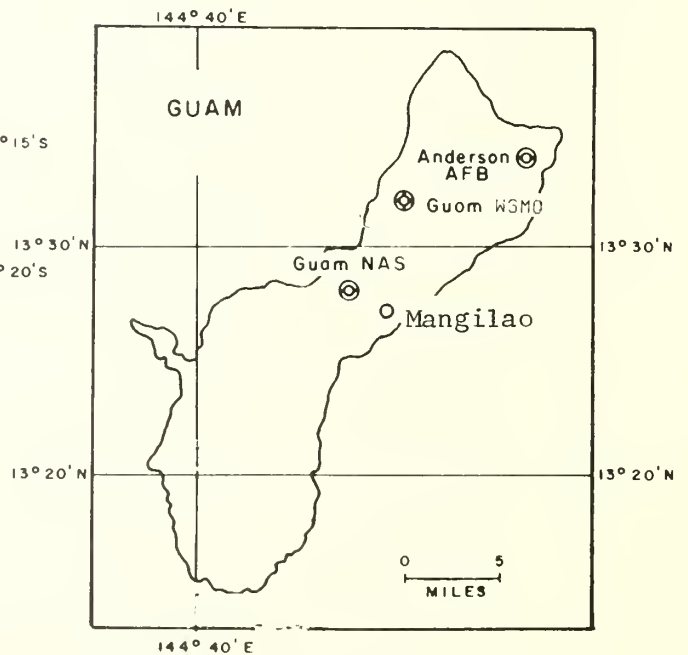


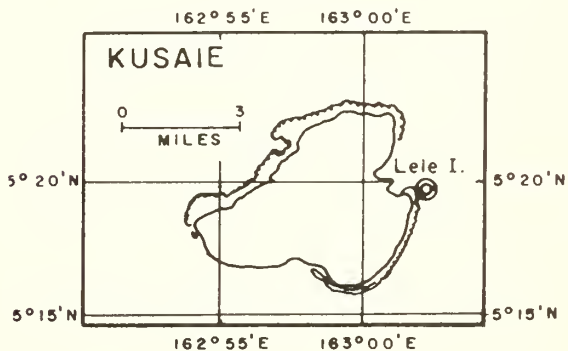
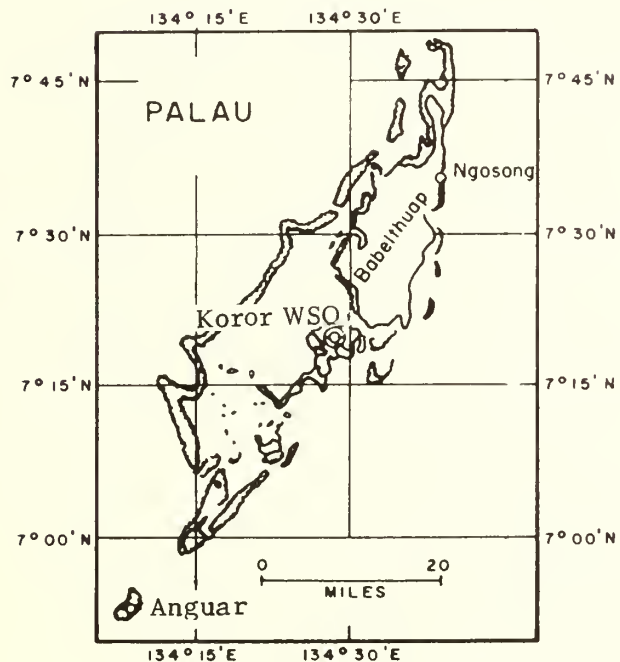
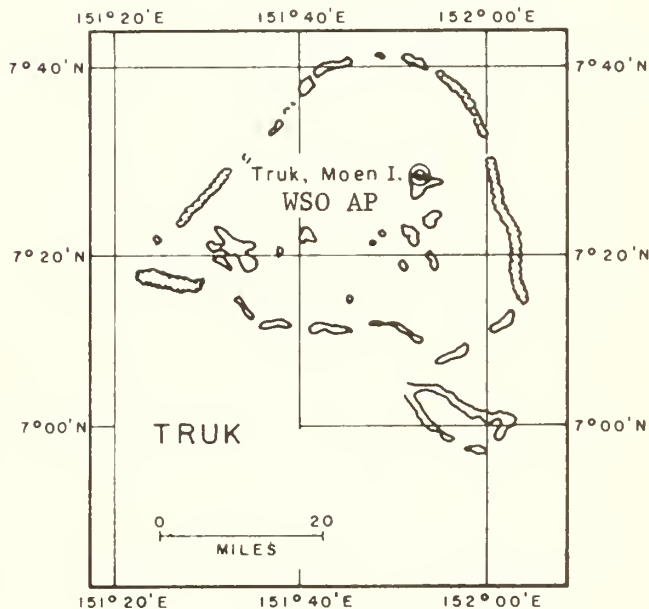
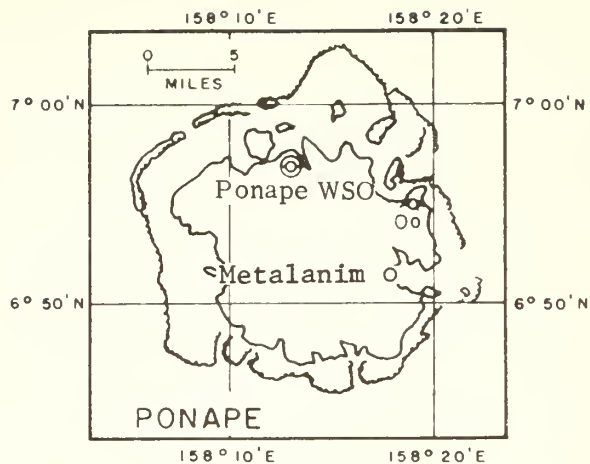
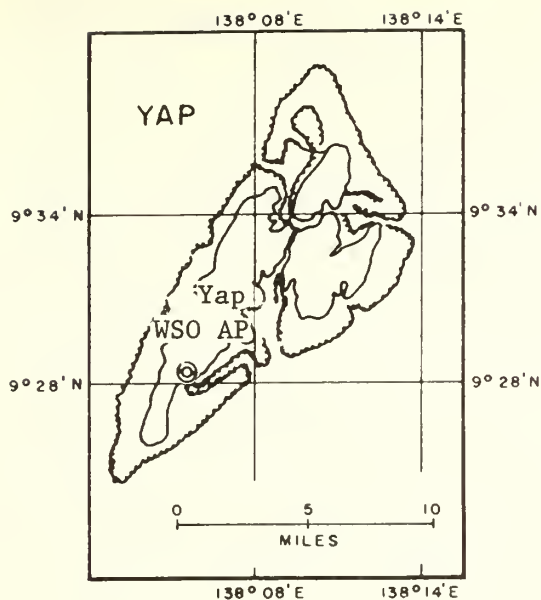






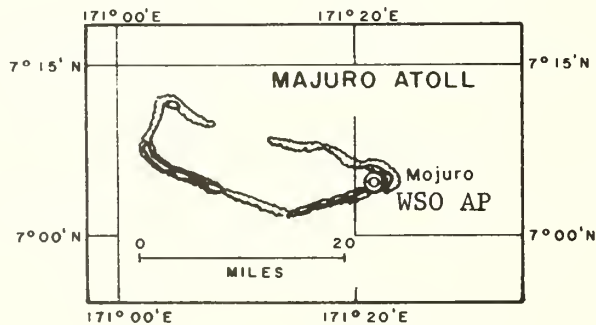
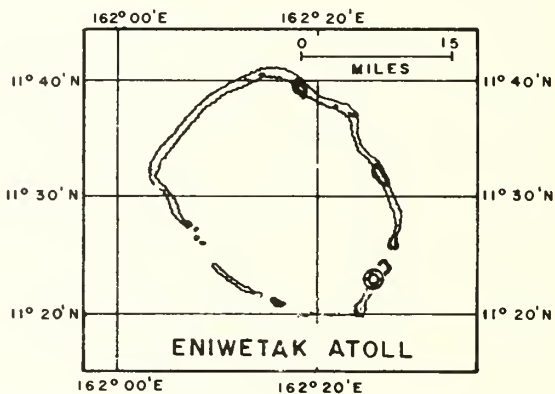
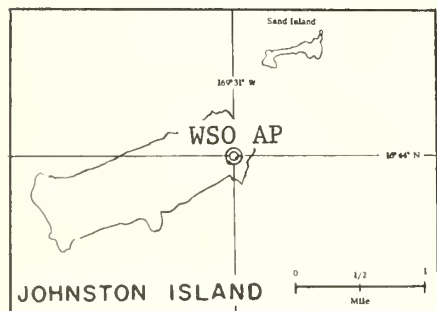
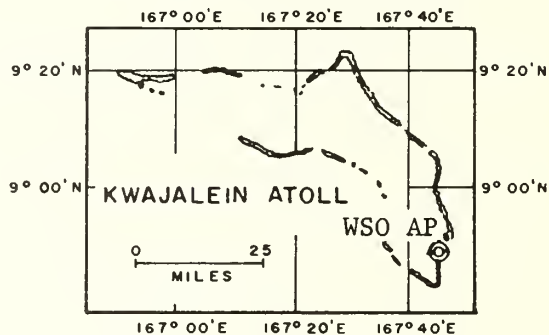
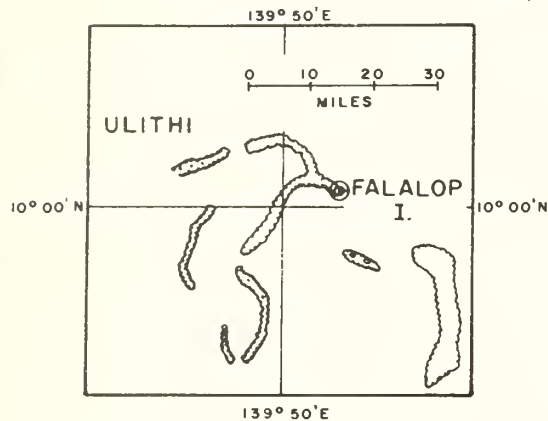
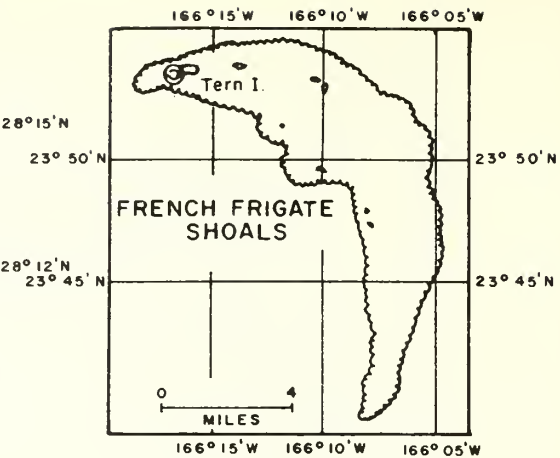
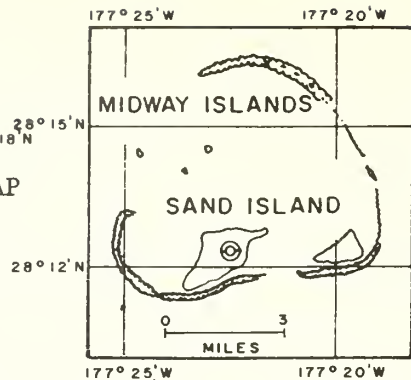
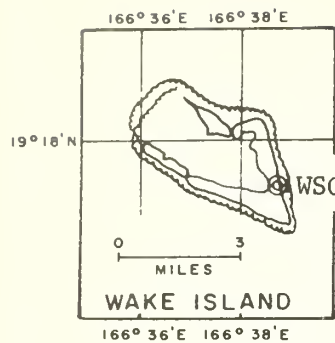
Reef





— Reef







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# Climatological Data

## HAWAII AND PACIFIC

### TEMPERATURE AND PRECIPITATION EXTREMES

HAWAIIAN STATIONS ONLY

HIGHEST TEMPERATURE: 3 STATIONS 91 DATE 06+  
 LOWEST TEMPERATURE: MAUNA LOA SLOPE 085 HAWAII 25 DATE 23  
 GREATEST TOTAL PRECIPITATION: KEANAE 346A MAUI 19.90  
 LEAST TOTAL PRECIPITATION: 4 STATIONS .00  
 GREATEST 1 DAY PRECIPITATION: N WAILUA DITCH 1051 KAUAI 5.52 DATE 28

### SUPPLEMENTAL DATA

	WIND (SPEED - M.P.H.)						RELATIVE HUMIDITY AVERAGES- PERCENT				NUMBER OF DAYS WITH PRECIPITATION										PERCENT OF POSSIBLE SUNSHINE AVERAGE (TENTHS)	SKY COVER AVERAGE (TENTHS)	SUNRISE TO SUNSET
	RESULTANT DIRECTION	RESULTANT SPEED	AVERAGE	FASTEST MILE	DIRECTION OF FASTEST MILE	DATE OF FASTEST MILE	STANDARD OF TIME				TRACE	.01-.09	.10-.49	.50-.99	1.00-1.99	2.00 AND OVER	TOTAL						
							GREENWICH CIVIL																
							12	18	00	06													
GUAM W5M0	-	-	-	33	NE	29	-	76	73	83	2	8	8	0	0	0	18	56	6.3				
HILO W50 87 AP	30	0.7	7.4	24	SE	06	84	77	65	83	4	10	7	1	0	0	22	48	5.6				
HONOLULU W50 703 AP	7	5.4	9.9	28	NE	19+	78	77	58	71	5	2	6	0	0	0	13	60	5.3				
JOHNSTON W50 AP	8	15.4	17.6	40	E	16	78	78	71	76	6	14	6	0	0	0	26	69	5.4				
KAHULUI W50 398 AP	4	6.2	9.5	30	NE	15	73	74	61	66	3	5	5	2	0	0	15	61	5.0				
KOROR W50	6	5.7	8.1	22	NE	30+	88	-	79	74	1	11	8	4	1	0	25	55	8.3				
KWAJALEIN MISSILE RGN	5	10.5	14.6	26++	21	26	80	80	73	77	7	11	2	2	3	0	25	-	8.4				
LIHUE W50 1020.1 AP	5	4.7	10.5	27	NE	18	78	76	64	75	3	10	2	2	2	0	19	42	6.2				
MAJURO W50 AP	6	6.7	10.1	26	E	15	81	80	76	78	3	7	4	2	2	3	21	71	9.2				
PAGO PAGO W50 AP	10	11.0	13.4	33	E	18	83	82	73	81	4	13	2	6	1	0	26	45	8.3				
PONAPE W50	-	-	-	19	E	30	84	-	73	74	1	10	8	3	0	0	22	41	8.6				
TRUK.MOEN I. W50 AP	6	9.4	11.1	24	SE	30	81	-	75	77	7	8	7	2	0	0	24	48	9.8				
WAKE ISLAND W50 AP	5	12.5	16.2	33	E	14	84	84	69	79	7	4	6	0	0	0	17	58	5.8				
YAP W50 AP	8	6.9	8.9	32	NE	01	84	-	77	75	1	9	6	0	3	2	21	33	7.8				

I CERTIFY THAT THIS IS AN OFFICIAL PUBLICATION OF THE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION AND IS COMPILED FROM RECORDS ON FILE AT THE NATIONAL CLIMATIC CENTER, ASHEVILLE, NORTH CAROLINA 28801.

*Daniel B. Mitchell*

DIRECTOR  
NATIONAL CLIMATIC CENTER

**noaa**

NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION / ENVIRONMENTAL DATA SERVICE / NATIONAL CLIMATIC CENTER ASHEVILLE, N.C.

## MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

HAWAII AND PACIFIC  
DECEMBER 1977

STATION		TEMPERATURE										PRECIPITATION												
		AVERAGE MAXIMUM	AVERAGE MINIMUM	AVERAGE	DEPARTURE FROM NORMAL	HIGHEST	DATE	LOWEST	DATE	DEGREE DAYS	NO. OF DAYS				TOTAL	DEPARTURE FROM NORMAL	GREATEST DAY	DATE	SNOW, SLEET			NO. OF DAYS		
											30° OR HIGHER	31° OR HIGHER	32° OR HIGHER	33° OR HIGHER					TOTAL	MAX. DEPTH ON GROUND	DATE	1.0 OR MORE	1.50 OR MORE	1.00 OR MORE
HAWAII																								
ISLAND OF KAUAI																								
ANAHOLA 1114		A																						
KANALOHULUHULU 1075			62.8	48.8	55.8		69 12	41 13			0 0	0 0	0 0	0 0	10.51		3.85	3		.0	0		13 7	2
KAPAA STABLES 1104		A													4.39					0	0			
KILAUEA POINT 1133			81.0M	68.7M	74.9M		90 1	64 30			1 0	0 0	0 0	0 0	1.79		.76	2		.0	0		4 1	0
KOLEA 936		A													7.23					.0	0			
LIHUE WSO 1020.1 AP		//R	80.1	66.9	73.5	1.0	85 1	62 22			0 0	0 0	0 0	0 0	4.91	- 1.43	1.83	6		.0	0		6 4	2
MANA 1026			82.6	62.9	72.8	.8	88 13	58 22			0 0	0 0	0 0	0 0	4.70	.64	1.98	3		.0	0		8 4	1
N. WAILUA DITCH 1051		A													12.40		5.52	28		.0	0			
PH. WAINIMA 1115															5.15	- 9.16				.0	0			
PUEHU RIDGE 1040															7.41	1.74	1.88	3		.0	0		8 4	4
WAHIKAWA 930		A													7.00	1.53				.0	0			
WAIHAI LOWER 1054			75.7M	59.5M	67.6M		80 13	52 27			0 0	0 0	0 0	0 0	11.26	- 1.38	3.92	28		.0	0		4 4	
WAIKAE 947															5.52	1.13	1.60	3		.0	0		7 5	1
ISLAND					68.9										6.68					.0				
ISLAND OF OAHU																								
ALOHA STADIUM-HALAWA			81.9M	65.8M	73.9M		91 5	61 26			1 0	0 0	0 0	0 0	1.93		.80	10		.0	0			0
B Y U LAIE 903.1			84.7M	66.6M	75.7M		87 21	61 25			0 0	0 0	0 0	0 0	2.20		.90	3		.0	0		4 2	0
HONOLULU OBSERV 702.2															1.47		.45	7		.0	0		6 0	0
HONOLULU WSO 703 AP		R	82.4	67.8	75.1	1.4	89 13	61 22			0 0	0 0	0 0	0 0	1.45	- 2.24	.39	3		.0	0		6 0	0
KANEHE MAUKA 781			79.0	68.6	73.8	1.8	85 2	63 21			0 0	0 0	0 0	0 0	3.30	- 4.49	1.10	4		.0	0		7 2	1
KOOLAU DAM 833		A													8.88		2.05	18		.0	0		10 5	4
MANOA LYON ARBORETUM			78.6	64.5	71.6		87 10	59 22			0 0	0 0	0 0	0 0	9.72		4.70	18		.0	0		8 4	4
NUUANU RES 4 783		A													4.08		1.18	3		.0	0		6 4	1
OPAEULA 870		R		M	M	M									6.90					.0	0			
PALOLO VALLEY 718		A					86 13	59 23			0 0	0 0	0 0	0 0	8.68	- 6.04	2.76	17		.0	0		10 5	4
WAHIKAWA DAM 863		A													4.02					.0	0			
WAIHOLE 837		A													6.09					.0	0			
WAIKALEE 896.3			78.7	66.9	72.8		85 2	60 20			0 0	0 0	0 0	0 0	3.20		1.30	4		.0	0		4 3	1
WAILUA 847		A	80.6M	62.3M	71.5M	.4	87 1	55 22			0 0	0 0	0 0	0 0	4.84	.20	1.82	3		.0	0		7 3	2
WAIKIKI 717.2			82.7	64.0	73.4		90 13	57 23			1 0	0 0	0 0	0 0	2.23		.83	4		.0	0		5 2	0
WAIMANALO EXP FARM			80.1	66.6	73.4		85 3	61 22			0 0	0 0	0 0	0 0	3.18		1.32	4		.0	0		8 2	1
WAIPAHU 750		A													2.49					.0	0			
ISLAND					73.5										4.39					.0				
ISLAND OF MOLOKAI																								
KUALAPUU 534		A													6.55					.0	0			
MAUNALO A 511		A													1.98		.61	31		.0	0		6 2	0
MOLOKAI AP S24			80.7	66.1	73.4		85 14	62 22			0 0	0 0	0 0	0 0	3.54		1.53	18		.0	0		6 2	1
ISLAND					73.4										4.02					.0				
ISLAND OF LANAI																								
LANAI CITY 672		A		M	M	M									1.16	- 2.97				.0	0			0
ISLAND															1.16					.0				
ISLAND OF MAUI																								
HALEAKALA B E S 434		A													7.15		2.46	18		.0	0		7 4	3
HALEAKALA RS 338			62.1	41.6	51.9	.2	70 12	35 22			0 0	0 0	0 0	0 0	1.64	- 7.22	.47	18		.0	0		4 0	0
HANA AIRPORT 355		A	79.7M	66.3M	73.0M		89 17	60 24			0 0	0 0	0 0	0 0	3.23		.90	7		.0	0		8 2	0
HONOKOHUA 493															2.73					.0	0			
KAANAPALI AP 453.1			79.0M	64.8M	71.9M		83 15	56 18			0 0	0 0	0 0	0 0	1.83		.76	18		.0	0		5 1	0
KAHULUI WSO 398 AP		R	81.4	66.3	73.9	1.3	86 9	59 26			0 0	0 0	0 0	0 0	2.81	- .03	.64	31		.0	0		7 2	0
KAILUA 446							80 7	57 23			0 0	0 0	0 0	0 0						.0	0			
KEANAE 346		A													19.90					.0	0			
KIPAHULU 258															2.33	- 7.86	.51	18		.0	0		9 1	0
KULA SANATORIUM 267			71.7	56.1	63.9	1.5	80 4	50 24			0 0	0 0	0 0	0 0	1.38	- 2.23	.70	10		.0	0		2 2	0
LAHAINA 361			82.9	64.6	73.8	.8	88 15	58 25			0 0	0 0	0 0	0 0	.77	- 2.09	.37	4		.0	0		2 0	0
PAIA 406															3.19	- 1.44				.0	0			
WAILUKU 386		A		M	M	M									2.02	- 2.63	1.27	18		.0	0		7 1	1
ISLAND					68.1										4.08					.0				
ISLAND OF HAWAII																								
HAWAII VOLCNS NP HQ 54		R	67.8M	47.9M	57.9M	.5	74 12	35 23			0 0	0 0	0 0	0 0	3.02	- 9.31	.68	17		.0	0			0
MILU WSO AP 87			82.4	64.9	73.7	2.1	91 6	55 23			1 0	0 0	0 0	0 0	2.66	- 13.10	.91	18		.0	0		8 1	0
HUEHUE 92.1		A													.10		.08	23		.0	0		0 0	0
KAHALU 73.2			78.9	59.8	69.4		85 4	54 26			0 0	0 0	0 0	0 0	1.26	- 2.35	.50	14		.0	0		0 0	0
KAPOHO BEACH 93.11			82.7M	67.0M	74.9M		88 13	62 23			0 0	0 0	0 0	0 0	2.22		.46	18		.0	0		7 0	0
KEAAU 92							91 5	58 27							5.01					.0	0			

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## MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

HAWAII AND PACIFIC  
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STATION		TEMPERATURE											PRECIPITATION																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
		AVERAGE MAXIMUM	AVERAGE MINIMUM	AVERAGE	DEPARTURE FROM NORMAL	HIGHEST	DATE	LOWEST	DATE	DEGREE DAYS	NO. OF DAYS				TOTAL	DEPARTURE FROM NORMAL	GREATEST DAY	DATE	SNOW. SLEET			NO. OF DAYS																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
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## MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

HAWAII AND PACIFIC  
DECEMBER 1977

STATION		TEMPERATURE												PRECIPITATION												
		AVERAGE MAXIMUM	AVERAGE MINIMUM	AVERAGE	DEPARTURE FROM NORMAL	HIGHEST	DATE	LOWEST	DATE	DEGREE DAYS	NO. OF DAYS				TOTAL	DEPARTURE FROM NORMAL	GREATEST DAY	DATE	SNOW, SLEET			NO. OF DAYS				
											MAX.		MIN.						TOTAL	MAX. DEPTH ON GROUND	DATE	-10 OR MORE	-50 OR MORE	1-00 OR MORE		
											80° OR HIGHER	32° OR BELOW	32° OR BELOW	8° OR BELOW												
PACIFIC																										
EAST OF 180TH MERIDIAN																										
ATU'U CANTON ISLAND		88.8M	79.6M	84.2M		92	8	75	21			0	0	0	12.29 20.56		4.51	20		.0	0		14	8	4	
FAGA ALU RESERVOIR																			.0	0						
FALEASAO VILLAGE																			.0	0		17	10	3		
JOHNSTON IS WSO AP	R	81.2	75.0	78.1	.5	84	11	70	6			0	0	0	11.38 1.77	- 1.62	1.54 .35	25 5+		.0	0		6	0	0	
LEONE		89.3M	81.3M	85.3M		92	30+	76	19			13	0	0	10.17		2.55	19		.0	0		5	3	0	
FRENCH FRIGATE SHOALS		79.3	69.6	74.5	1.2	84	23+	66	26+			0	0	0	2.32	- 2.53	.73	26		.0	0		5	2	0	
MIDWAY SAND ISLAND		70.5	61.4	66.0	- 2.5	79	11+	51	27			0	0	0	7.74	3.45	2.71	18		.0	0		10	5	2	
PAGO PAGO WSO AP	R	86.5	77.6	82.1	2.1	90	25	74	21			1	0	0	6.86	- 7.99	1.89	20		.0	0		9	7	1	
WESTERN PACIFIC ISL. NORTH OF 12 N																										
ANDERSEN AFB GUAM		82.6	76.8	79.7	.4	84	25+	74	19			0	0	0	1.13	- 4.73	.27	1		.0	0		4	0	0	
CLARK AFB LUZON		85.8	71.1	78.5	.0	88	31+	66	12+			0	0	0	1	- 1.38	1	27+		.0	0		0	0	0	
GUAM NAS																										
GUAM WSMO	R	84.3	72.8	78.6	.1	86	15+	66	15			0	0	0	2.22 2.77	- 3.63	.40 .46	4 5		.0	0		8	0	0	
MANGILAO																										
ROTA															2.14					.0	0					
SAIPAN LORAN																										
WAKE ISLAND WSO AP	R	82.3	73.1	77.7	- .9	86	11+	70	31+			0	0	0	1.36	- .37	.39	28		.0	0		6	0	0	
CAROLINE AND MARSHALL ISLANDS																										
ANGUAK																										
ENIWETAK																										
FALALOP I ULITHI ATOLL																										
KAPINGAMARANGI ATOLL																										
KOROR WSO	R	88.8	76.2	82.5	1.2	91	6+	75	26+			11	0	0	7.79	- 5.08	1.75	18		.0	0		13	5	1	
KWAJALEIN MISSILE RGN	R	86.3	78.5	82.4	.8	88	16+	75	31+			0	0	0	7.16	- 2.07	1.83	3		.0	0		7	5	3	
LELE I KOSRAE																										
MAJURO WSO AP	R	86.0	76.2	81.1	.0	89	26+	70	18			0	0	0	18.88	7.00	4.80	18		.0	0		11	7	5	
METALANIM		86.0	75.0	80.5		89	28+	70	23+			0	0	0	3.37		.83	6		.0	0		7	3	0	
MOKIL ATOLL																										
NGASANG-ABELTHUAP															12.11		1.98	1		.0	0		14	9	5	
PONAPE WSO	R	88.6	74.7	81.7	1.1	90	28+	66	8			9	0	0	4.95	-11.00	.97	1		.0	0		11	3	0	
SATAWAN ATOLL																										
TRUK MOEN I. WSO AP	R	86.8	77.6	82.2	.9	89	12	74	24+			0	0	0	3.24	-10.68	.84	25		.0	0		9	2	0	
WOLEAI ATOLL																										
YAP WSO AP	R	86.9	74.6	80.8	- .2	89	10+	71	12			0	0	0	11.64	1.76	2.64	12		.0	0		11	5	5	

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# DAILY PRECIPITATION

HAWAII AND PACIFIC  
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STATION		TOTAL	DAY OF MONTH																														
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
HAWAII																																	
ISLAND OF KAUAI																																	
ANAHOLA 1114	A	4.58	.20	.20	x		1.87	.22	.95								.10	x	x		.10		.05		x	x	x	.22	.50	.07		x	
BRIDESWOOD STA 985	A	9.69	1.20	1.02	x		2.96	.42	1.07	.02	.01						.07	x	x		.10	.02	.06		x	x	x	1.05	1.37	.32	x	x	
EAST LAKE 934	A	9.03	.11	2.70	x		2.42	.70	1.20								.02	x	x		.29	.03	.20		x	x	x	3.0	1.06	x	x	x	
ELELE 927	A	6.55	.62	.52	x		2.21	.16	.77	.01							.02	x	x		.02		.01		x	x	x	1.12	.75	.34	x	x	
HALEAULA 1110	A	4.77	.05	.10	x		1.89	.30	.98								.07	.10	x	x	.18	.30	.05	x	x	x	x	.10	.58	.07		x	
HALENAHUA 1006	A	8.51	.28	.38	x		2.53	.33	2.10								.03	.08	x	x	.33	.26	.06	x	x	x	x	.13	1.57	.43		x	
HANALEI TUNNEL 1053	A	15.80	x	x	x		x	x	x		x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	15.80	
HUKIPO 945	A	6.38	.80	.46	1.45		.03	.25	1.10								.24	x	x		.46	.12	.09	x	x	x	x	1.04	1.05	.05	.20	x	
ILILIULA INTAKE 1050	A	12.37	.16	.38	x		2.98	1.66	1.82		x	x	.03	x	x	.05	2.40	x	x		3.70	x	x	.31	x	x	x	.66	3.49	.22	x	x	
INTAKE WAINIHA PC 1086	A	9.74	x	.49	x		1.58	1.65	1.11				.01	x	x																		
KANALOHULU 1075	A	10.51	.44	.34	3.85		.15	.02	.56	1.72	.01		.02				.35	.57	.13		.12	.02		.26	.30	x	x	x	.73	.68	.08		.72
KANAKA RESERV 012 1092	A	6.45	.10	.15	x		2.00	.07	.89			x	.03				.10	.25	x	x	.75	x		.26	.30	x	x	x	.15	1.10	.30	x	x
KARAKA STABLES 1104	A	4.35	.04	.17	x		2.03	.22	.97								.03	.10	x	x	.20	.11		.11	x	x	x	.05	.42	.05	x	x	
KEALA 1112	A	4.45	.35	.10	x		1.60	.27	.96								.17	x	x		.15	.10	.03	x	x	x	x	.07	.55	.10		x	
KEKAHA 944	A	5.81	.40	.57	1.51		.04	.27	.90																				.72	1.16	.01		.23
KILAUWA 1134	A	5.30	.13	.50	.53		.06	.55									.40		.08			.19						.94	.81			1.11	
KILAUWA POINT 1133	A	1.79	.08	.76	.01		.01	.01	.03								.02				.03	.01		.01	.01	.01			.22	.37			.22
KOLA 1033	A	5.52	.27	.95	2.03		.19		.68								.10	.13		x	.51	.01	.34		x	x	x	.15	1.30	.10	.03	x	
KOLA 936	A	7.23	.25	.80	x		1.70	.63	1.11								.05	.07		.08	.01	.03						.04	1.46	.05		.01	
KOLA LN (MAK) 940.1	A	4.48		.82			.75	1.11																									
KOLA MAUKA 994	A	8.06	x	x	x		x	x	6.02	.34				T	x	x	x	x	x	x	.44	.07	x	x	x	x	x	x	1.99	x	x	x	x
KUKUIULA 935	A	7.70	.23	2.60	x		1.75	.55	.91								.02	.05	x	x	.25	.01	.04		x	x	33	.96	x	x	x	x	
LIHUE VARIETY ST 1062.1	A	5.51	.12	.42	x		1.60	.48	1.10								.10	x	x		.21	.10	.10		x	x	x	1.0	1.15	.03	x	x	
LIHUE 1020	A	6.20	.39	.42	x		1.32	1.07	1.56					.03	.02	T	x	x	x		.10	.35		.02	.01	x	x	x	.81	.02	.01	x	x
LIHUE WSO 1020.1 AP	A	4.91	.02	1.06	.61		T	.04	1.83						.02	.02	.06	.02	.04		.19	.03			T	.02	.52	.08				.34	
MAKAHOLE 965	A	6.65	.36	.90	2.02		.19		.10	1.10	.01																		.89	.88	.04		.16
MANA 1025	A	4.70	.29	.57	1.98		.19	.02	.62																				.28	.63			.12
MANAHI UPR CROSS 1083	A	11.77		1.16	1.73			.16	1.89								.34	2.46	1.01	.56		.11	.11						1.23	.46			.56
MOLAA 1145	A	2.78	x	x	x		1.52	x	.12	x	x	x	.92	x	x	x	x	x	x	x	x	x	x	x	x	x	x	22	x	x	x	x	x
MOUNT WAIALEALE 1047	A	2.78	x	x	x		1.52	x	.12	x	x	x	.92	x	x	x	x	x	x	x	x	x	x	x	x	x	x	22	x	x	x	x	x
ISLAND OF MAUI																																	
NIU RIDGE 1035	A	6.42	.36	x	x	3.20		.82									.02	.33	x	x	.77	.07	.25	.03	x	x	x	x	.67	5.52	.05	x	x
N WAIALA DITCH 1051	A	12.40	.10	.41	x		2.07	.62	1.44	.03	x	x	.02	x	x	x	.02	.33	x	x	.77	.07	.25	.03	x	x	x	x	.67	5.52	.05	x	x
N WAIALA RIVER 1055	A	10.08	x	x	x		x	x	x	x	x	x	.02	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	10.00	x
PH WAINIHA 1115	A	5.15	.16	.17	x		1.89	.86	.01								.01	.70	x	x	1.01	.01	.05	.05	T	x	x	x	.06	.17	T		x
PRINCEVILLE RANCH 1117	A	4.62	.05	.50	x		1.00	.01	.72								.44	x	x		.15	.01	.20	.11	x	x	x	x	.09	x	1.34		x
PUEHU RIDGE 1040	A	7.41	.47	.44	1.89		.07	.23	1.29																				1.70	1.07	.06		.20
PUEHU 1013	A	4.90	.04	.95	x		1.05	.70	.70								.05	x	x		.29	.03	.05		x	x	x	.10	.76	.03	x	.15	
WAIHANA 930	A	7.00	.27	.80	x		2.20	.35	.88	T											.06	.01	.02		x	x	x	1.42	.90	.09	x	x	
WAIHANA 1054	A	11.26	.45	.24	2.13		1.18	.02	.24	1.28	.02	.01					.03	.06	.29	.15	.13	.02	.24	.04	.01	x	x	x	.46	3.92	.14	.01	.19
WAIHANA UPPER 1052	A	11.18	.20	.10	2.40		1.00	.01	.20	2.20			.05				.03	.10	.25	.18	.12	.02	.25	.03	x	x	x	.48	2.45	.68	.05	.38	
WAIHANA 943	A	4.81	.28	.51	1.60		.08	.07	.83																				.40	.83			.21
WAIHANA KAI 1065	A	4.58	.22	.05	x		1.78	.14	1.56								.08	x	x											.36	.03	x	x
WAIHANA 947	A	5.52	.60	.44	1.60		.04	.09	.90												.11	.24		.02					.75	.90		.20	x
WEST LAKE 931	A	6.81	.20	1.75	x		1.64	.53	.82	T							.02	.02	T	x	.19	.02	.10		x	x	x	.54	.91	.07	x	x	
ISLAND OF OAHU																																	
ALOKA STATION-HAWAII	A	1.93	.05		.14		x	.02	.22	.01		.80	x	.01			.06	x	x		.55			x	x	x	.07					.15	
BERETANIA PUMPING STA	A	3.43			T		x	.59	.25								.28	1.48	x		.63							.02	.08	.08		.10	
B Y U LAKE 903.1	A	2.20	.02	.90			.02	.70	.02																								.15
CAMP BAY 807	A	1.90	.12	T		.62	T	.36	.02								.01	.17			.02			x	x	x	x	x	.01	.13		.4	
CAMP BAY 807	A	3.58	.19	x	x		2.00	x	.74	x	x	.04	x	x	x	x	.1	x	x	x	.47	x	x	x	x	x	x	x	.01	.13		.4	
COCONUT ISLAND 840.1	A		x	x	x		.78	.02	.31								.15	x	x		.18			x	x	x	x	.50	x	x	.08	x	
EUA PLANTATION 741	A	1.61	x	x	x		.71	.01	.38												.31			.07	x	x	x	x	.07	.13			.08
HELEMANA INTAKE 881	A	6.82	.04	x	x		1.96	x	.62	x	x	.10	T	x	x	x	x	x	x	3.75	.05	x	x	x	x	x	x	.10	x	x	x	x	
HONOLULU OBSERV 702.2	A	1.47		T		.35		.45	.06	T			.06	T			.14				.06								.14	.14			.13
HONOLULU WSO 703 AP	A	1.45	T	.39			.17		.09								.21	.22	T	x									.13	T	.02		.22
KANAKA RESERV 012 1092	A	4.36	x	x	x		x	x	.85	x	x	x	.87	x	x	x	x	x	x	x	1.18	x	x	x	x	x	x	x	x	x	x	x	1.46
KARAKA STABLES 1104	A	6.59	x	x</																													

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HAWAII AND PACIFIC  
DECEMBER 1977

STATION	TOTAL	DAY OF MONTH																																
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
HAWAII																																		
KONA (KAILUA) 68.3	A	.05											.25		.04																			
KONA VILLAGE 93.8		.30											.05		.15																			
KUKIAIAU 222		7.69			1.71	.58				.03			.05		.02		.07	.89	.60	2.99	.20	.14		.16										
KUKIHALE HIC 199		9.64			3.78	.80						1.10	.04				.02	.73	.52	2.05	.20	.23		.06										
KUKIHALE MILL 206	A	5.93	x	x		1.94				.01	x	x	99					x	x	2.71	.10	.10		.05										
KULANI CAMP 79		1.53			.02	.01				.30					.08	.09	.08			.45	.18	.08	x	.08										
KULANI MAUKA 76	A	.75			x	x	x	x	x	.4	x	x	x	.01	x	x	x	x	x	.60														
KULANI SCHOOL SITE 78	A	2.87			x	x	x	x	x	x	x	x	x	x	x	x	x	x	1.66	x	x	x	x	x	.83	x	x	x	x	x	x	x		
LAWAIAU 68.2		.59													.41			.03			.08													
MAKAHALA 103		1.65				.20											.08			1.07					.30									
MAKAHALA 2	A	.30													.10			x	x		.10													
MAUNA KEA OBS 111.2	T																																	
MAUNA LOA SLOPE OBS																																		
MIDDLE MAUNALOA 68.1	A	.08	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	.08	x	x	x	x	x	x	x	x	x	x	x	x	x	
MIDDLE PEN 147.1	A	1.00	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	.05	x	x	x	x	x	x	x	x	x	x	x	x		
MOAULA 18	A	2.84	x	x	x	x	x	x	x	x	1.34	x	x	x	x	x	x	x	x	x	x	x	x	x	.75	x	x	x	x	x	x	x		
MOUNTAIN VIEW 91		5.82		.10	x	x	.25			.20	x	x	.05	.43	.43	.06	.09	x	x	3.32	.16	.11		.14										
NAALEHU 14	A	1.85		.09	.48					.03	T			.28	.41						.47	x	x		.40	.01								
NAPAHU 28	A	.55												x	x	x	x	x	x								x	x	x	x	x	x	x	
NAKALA 223	A	6.05	.01			1.80	.25	T						.12		.11	.02	.61	.79	1.93	.10	.16		.11	.04	T								
OPINIHOLE 2 24.1		.67			.05			.02						T	.07	x	.07	.11	.14	T	T			T	.02									
ORCHID LAND EST 91.5	A	5.15	x	x	x	x	x	x	x	x	x	x	x	x	x	x	1.44	x	x	x	x	x	x	x	3.50	x	x	x	x	x	x	x		
PAALUA 217		8.01			2.52	.35					1.05					.01	.06	.79	.47	2.33	.18	.08		.09	.02									
PAALUA 221		7.39			1.97	.38	T				.06					.09	.03	1.08	.66	2.54	.32	.12		.14	T									
PAHALA 21	A	1.16		.03	.13					.37	.01			.20	.02									.09										
PAHALA 65		6.96		.15	x	x	.28	.10		.86	.07	x	x	1.19	.11	.57	.33	.40	x	x	x	x	x	.38	.05									
PAHALA 37	A																																	
PAPAIAU 144.1		2.57			x	x	.05			.01	x	x	.16	.31	.07	.02				1.82	.01	.02		.04										
PAPAIAU MAUKA 140.1		5.47			x	x	.15			.06	x	x	.10	.34	.20	.22				3.90	.11	.06		.06										
PITIHONUA 89	A	4.00	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x		
POHAHOLA 107	A	.00			.04		.30						.04																					
PULUHOLA HEIAU 98.1	A	.36	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x		
PUU LEHUA 73	A	.45																																
PUU WAHUA 94.1	A	.11																																
SADDLE ROAD 1 84	A	4.17	.07	x	x	x	x	x	x	.16	x	x	x	x	x	1.02	x	x	x	x	x	x	x	2.65	x	x	x	x	x	x	x	x	x	
SOUTH KONA 2.31		.56								.05																								
SOUTH POINT CORRAL 3	A	.35																																
UPOLI POINT USCG 159.2		1.32			T						.04	x	x	x	x	x	x	x	x	1.00	T	T		x	x	x	x	x	x	x	x	x	x	
WAIKAKA SCO 88.2		5.43		.02	.05		.13	.07	.08		.06	.01	.04							1.93	.03	.07		.10			T	T	T	T	T	T	T	
WAIKAKA-BOIS CAS 95.8		.79		.24									.05	T	.38	.06	.25	.02	1.16	.99														

SEE REFERENCE NOTES FOLLOWING STATION INDEX



# DAILY PRECIPITATION

HAWAII AND PACIFIC  
DECEMBER 1977

STATION	TOTAL	DAY OF MONTH																															
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
PACIFIC																																	
* * *																																	
EAST OF 180TH MERIDIAN																																	
4TH U	12.29			.14							.72			.20	.43	.05		.13	.08	1.25	4.51	1.56	1.08	.57	.06		.11	.03	.50	.01	.02	.27	.51
LANTON ISLAND	20.56	1.70	.71	1.36	*	4.15	.01	1.00	2.30		.16	*	.10		.51	.70		.28	.40	*	1.53	1.56	.36		.52	.09	*	*	1.36	.36	.15	1.29	
FAGA ALU RESERVOIR																																	
FALEASAB VILLAGE	11.38			.04	.07	.29	.43	1.06	.76		1.38	.67		.06	.43			.27	.54	.64	.27	.05	.76	.92		1.54	.77	.11	.09	.12	.07	.04	
JOHNSTON IS WSO AP	1.77		.35	T	.01	.35	.10	.02	T	.01		.09	.02	T	.02	.02	.06	.08	.17	.18	.03		T	T	.01		.06		.03	.03	.13	T	
LEDNE	10.17				.21	.15	.37	.01			.10	.03	.09	.10	.30		.02	.13	.09	2.55	2.27	.68	.96	.22	.04	*	.21	.47				1.20	
FRENCH FRIGATE SHOALS	2.32						.71					.03			.13				.02	.01		.01					.73	.46	.01	.02	.19		
MIDWAY SAND ISLAND	7.34	.01	.01	.05	.62	.05	T	.09	T	.44	.65	.14	.07	.01	.13			.03	.04	2.71	.50	.01		.11	1.69	.41	T	T	.10	T			
PAGO PAGO WSO AP	6.86			.12	T	.01	.06	T			T	.01	.03	.04	.01	.06	.01	.05	.03	.94	1.89	.72	.68	.92	T	.03	.54	.02	.02	.15	.52		
* * *																																	
WESTERN PACIFIC ISL. NORTH OF 12 N																																	
ANDERSEN AFB GUAM	1.13	.27	.12	.01	.15	.08	T		.04	.09	T				T					.03	.07	T	T	T	.02		T	T	.03	.16	.06	T	
CLARK AFB LUZON	T																																
GUAM NAS																																	
GUAM WSO	2.22	.36	.26	.13	.40	.37				.03				.02							.01	.14	T		.01	.01	.03	.05	T	.03	.25	.12	
MANGILAO	2.77	.34	.33	.09	.40	.46							.10									.07			.17		.12		.07	.23	.39		
ROTA	2.14	.38	.54	*	*	1.11					*	*	.05				.02										*	*	*	.04			
SAIPAN LORAN																																	
WAKE ISLAND WSO AP	1.36	.01				.13								T	T		T	T	.04	T	.20	T						*	*	*	.04		
* * *																																	
CAROLINE AND MARSHALL ISLANDS																																	
ANGUAR																																	
ENIWETAK																																	
FALALOB I. ULITHI ATOLL																																	
KAPINGAMARANGI ATOLL																																	
KOROR WSO	7.79	.42		.61	.90	.02	.12	.60	.06	.48	.06	.08	.30	.49	.03	.45	.28		1.75	.05				.65		.03	T	.02	.09	.04	.09	.17	
KWAJALEIN MISSILE RON	7.16	1.08	.06	1.83	.41			.04	.98	T		.01	T	.05	T	.06	T	.01	.24	T	1.68		.01	T		.02	.54	.04		T	.02	.08	
LELE I. KOSRAE																																	
MAJURO WSO AP	18.88				.22	.40		.04	.02	.03			.97	1.99	1.42	.30	4.71	3.15	4.80	.55	.02	T	.01	T		.15		.04	T	.06			
METALANIM	3.37		.76	.06		.14	.83	.05				.26		.30			.02			.69	.02					.07		.12	.01	.01	.03		
MOKIL ATOLL																																	
NGASANG-BABELTHUAP	12.11	1.98	.06	.05	.05	1.54	.07	.05	.26	.02	1.06	.78	.25	.20	.19	1.36	.02	.08	.72	.05	1.94	.70	.56					.12	.73	.04	.03	.06	
PONAPE WSO	4.95	.97	.49	.06	.04	.02	.16			.23	.02	.45	.23	.10			.19		.90		.01	.03		.04			T	.15					
SATAWAN ATOLL																																	
TAUK. MOEN I. WSO AP	3.24	.17	.02	T	.02	.27	.13	.17			.08	T	.03	.02			T	T	T		.05	.10	T		.75	.84	.39		.06	T	.13	.01	
WLEAI ATOLL																																	
YAP WSO AP	11.64	2.52	.10		.39	.04		1.27	.04		1.56	.01	2.64	.38	.34	.47		.05	.13				.01				T	.09	.06	.01	.09	1.44	

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# DAILY TEMPERATURES

HAWAII AND PACIFIC  
DECEMBER 1977

STATION		DAY OF MONTH																															AVERAGE	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
HAWAII																																		
ISLAND OF KAUAI																																		
KANALOHULUHULU 1075	MAX MIN	64 58	68 53	65 55	60 47	64 43	64 51	62 43	64 42	65 44	66 45	68 46	69 46	68 41	67 49	68 55	66 56	61 55	60 53	58 50	56 47	58 44	60 43	59 51	58 50	58 47	61 51	61 51	60 55	65 47	64 47	60 47	62.8 48.8	
KILAUEA POINT 1133	MAX MIN	90 70	86 69	79 67	80 68	84 70	79 67	79 69	84 69	83 73	82 70	82 70	86 71	85 74	83 72		84 68	77 69	77 69	75 64	76 64	78 66	78 69	76 69		80 69	80 70	76 68	79 70	81 68	87 64	83 68	81.0 68.7	
KOLOA LN (MAK) 940.1	MAX MIN	88 70	89 69		82 65	82 60	85 68	75 68	81 65	84 68	82 69	88 68	86 69	86 70	83 67	83 67	78 66	79 65	78 65	76 61	76 60	78 60	80 67	79 70	79 69	80 65	80 65	82 65	82 65	85 64	85 64	81.6 66.4		
LIHUE WSO 1020.1 AP	MAX MIN	85 72	80 70	81 63	80 62	81 67	77 67	79 65	82 64	82 67	82 69	83 68	83 66	82 68	79 72	79 71	76 69	77 67	75 67	78 64	78 63	81 62	81 64	82 69	79 68	80 66	79 70	81 67	81 65	76 63	76 63	80.1 65.9		
MANA 1026	MAX MIN	85 70	85 69	87 68	76 61	81 64	84 67	77 64	81 60	85 62	84 62	84 64	86 63	88 64	86 64	86 59	87 60	84 55	86 54	81 55	80 54	78 54	81 55	81 54	82 54	81 50	80 59	80 65	77 64	81 64	85 64	82 64	82.6 62.9	
NIU RIDGE 1035	MAX MIN	83 66				83 58		82 60				82 56	84 60	85 59	89 59				74 54	75 55	74 54		75 55	76 54			78 50	72 61	79 62	79 62			75.7 59.5	
WAIHAI LOWER 1054	MAX MIN	79 55	78 65	75 66	76 55	78 60	76 65	75 57	79 57	79 59	77 60	78 59	79 60	80 61	79 60	79 61	77 65	78 65	72 62	69 59	69 56	70 55				75 53		73 52	69 64	75 59	76 57	73 59	75.7 59.5	
ISLAND OF OAHU																																		
ALOHA STADIUM-HALAWA	MAX MIN	85 69	85 70	82 70		91 65	84 69	84 66	82 65	84 65	84 66		85 66	86 66	85 67	81 71	82 68		78 67	76 68	75 61		76 61	73 61			79 61	77 65	84 64	83 64	84 65		81.9 65.8	
B Y U LAIE 903.1	MAX MIN	86 65	87 66	85 65		87 62	86 63	86 65	84 69	86 67		83 66	84 69	86 71	85 71	87 73		84 71	85 71	87 73	85 70	84 71	84 65	83 61	83 62	85 63	81 61	83 63	84 65	81 65	81 62	84.7 66.6		
EWA PLANTATION 741	MAX MIN	84 68	85 69			85 64	81 65	84 65	82 63	83 63		85 64	86 64	87 65	84 67	84 69			83 66	78 62	76 61		78 58	80 57			80 57	77 65	83 61	83 61				
HONOLULU WSO 703 AP	MAX MIN	84 75	85 73	80 70	82 66	82 70	84 70	81 68	83 67	85 68	86 68	86 67	89 68	85 70	86 74	84 70	83 70	80 70	80 69	80 70	79 68	78 61	81 61	80 63	80 66	81 65	80 69	79 68	82 68	82 65	81 65	80 69	82.4 67.8	
KANEHE MAUKA 781	MAX MIN	84 71	85 71	83 72	76 68	79 69	80 72	80 68	78 64	84 70	81 71	81 69	80 69	84 70	83 72	83 72	80 70	78 70	72 70	80 70	76 67	75 67	75 63	76 66	77 66	77 66	76 66	75 66	79 68	80 68	79 65		79.0 68.6	
MANOA LYON ARBORETUM	MAX MIN	82 67	81 66	85 66	75 65	78 66	82 66	81 64	82 64	85 65	87 69	81 65	81 63	84 63	83 68	75 69	80 64	72 66	69 65	75 64	73 64	70 61	69 59	76 63	75 65	75 63	79 62	78 62	75 64	84 65	83 63	82 62	78.6 64.5	
OPAEULA 870	MAX MIN		82 70			85 64	82 65	79 62	82 65	85 65		85 65	86 64	84 66	79 66	80 66			75 64	72 63	70 60	72 60	75 59				75 65	73 65	81 65					
WAIALEE 896.3	MAX MIN	84 71	85 70	83 72	74 69	77 68	81 67	84 66	78 68	80 67	81 66	80 66	82 65	82 65	79 62	80 66	79 66	74 66	76 65	75 64	74 66	75 66	76 65	76 65	76 68	76 63	73 63	77 66	81 65	80 64	81 67	78.7 65.9		
WAIALUA 847	MAX MIN	87 66	85 66	86 69	77 65	79 59	80 66	85 63	79 59	81 60	83 62	86 62	84 62	82 63	85 61	82 60	80 61	73 68	73 68	75 67	75 66	76 56	76 56			76 55	76 56		77 68	84 64			80.6 62.3	
WAIKIKI 717.2	MAX MIN	87 69	86 68	86 72	79 63	82 66	84 66	83 62	82 64	86 62	86 64	86 62	90 64	88 68	84 68	84 64	82 67	77 64	79 65	78 65	78 57	79 57	80 63	81 63	80 65	81 67	80 65	81 67	78 64	85 61	84 61	83 62	82.7 64.0	
WAIMANALO EXP FARM	MAX MIN	82 70	82 69	85 71	79 65	79 69	82 68	82 66	78 67	81 69	80 69	81 66	81 65	83 64	83 68	81 71	80 66	81 69	78 68	79 67	80 67	79 67	80 61	78 63	78 65	78 67	79 63	77 63	79 65	80 65	82 65		80.1 66.6	
ISLAND OF MOLOKAI																																		
MOLOKAI AP 524	MAX MIN	85 66	85 64	85 74	80 70	82 67	85 65	85 64	82 64	85 66	85 67	84 65	83 64	85 68	85 67	84 68	84 67	81 67	71 69	79 66	74 66	74 67	78 62	77 64	76 68	76 66	78 63	76 66	79 65	79 65	79 63	81 67	80.7 66.1	
ISLAND OF LANAI																																		
LANAI AIRPORT 656	MAX MIN	81 61	80 60	80 66	75 64	74 63	80 62	78 63	78 60	82 65	79 65	79 62	78 61	81 65	80 64	78 60	78 61	75 61	75 60	72 59	71 59	73 58	73 58	73 52	73 56	74 56	74 60	75 58	77 58	78 56	78 61	76.8 60.8		
LANAI CITY 672	MAX MIN	80 63	80 61			80 64	82 62	78 63	78 67			78 67		79 61	78 64	78 62			73 64	76 61								74 62		76 61	74 60	73 60		
ISLAND OF MAUI																																		
HALEAKALA R5 338	MAX MIN	62 43	61 41	67 43	70 42	64 39	59 41	65 44	61 40	61 41	65 43	67 45	70 47	67 44	67 46	67 49	63 42	58 41	58 46	61 39	58 37	58 35	58 35	55 38	55 39	56 45	64 42	59 37	61 40	60 42	63 41	64 42	62.1 41.6	
HANA AIRPORT 355	MAX MIN	84 65	83 65	82 66	83 68	75 69	82 68	82 68	76 67	81 68	82 68	81 67	82 70	81 71	81 68	81 66	89 67	77 69	75 66	75 65	75 65	74 60	77 66			77 62	77 62	80 65	81 67	80 64	80 61	79.7 66.3		
KAAHAPALI AP 453.1	MAX MIN	83 67	81 65	82 66	82 57	77 65	81 67	81 66	78 65	81 66	81 66	81 65	83 65	83 68	83 71	82 68	79 69	75 56	76 65	74 64	74 62	75 64	76 66			77 60	76 62	78 64	81 64	79 64	78 61	78.0 64.8		
KAHULUI WSO 398 AP	MAX MIN	86 67	85 64	83 71	79 66	84 65	84 67	80 69	84 65	86 66	85 66	85 67	83 67	84 70	83 72	81 71	77 72	76 71	76 69	76 67	77 64	79 61	79 64	80 68	80 66	80 59	80 60	84 63	82 63	82 63	77 65	81.4 66.3		
KAILUA 446	MAX MIN	78 66	78 68			78 63	79 64	80 64	75 63	78 64		78 68	79 69	78 67					75 63	69 62	69 60	73 58						74 62	76 65	76 64				
KEAWAKAPU BEACH 260.2	MAX MIN	85 65	85 63	88 66	83 66	77 63	86 66	81 67	82 63	84 65	85 63	84 64	84 63	85 65	85 62	85 62	87 64	84 62	80 67	80 57	80 57	81 61	80 64	80 61	79 59	79 57	75 59	82 62	85 63	85 62	83 65	83 65	82.7 63.0	
KULA SANATORIUM 267	MAX MIN	74 56	76 57	77 59	80 66	67 58	74 58	70 59	75 60		74 56	72 56	74 59	74 60	76 56	72 56	74 55	74 56	72 57	70 54	69 54	66 51	68 52	68 50	68 52	65 53	65 53	70 55	71 55	72 57	72 58	71><		

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# DAILY TEMPERATURES

HAWAII AND PACIFIC  
DECEMBER 1977

STATION		DAY OF MONTH																															AVERAGE	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
HAWAII																																		
LAHAINA 361	MAX MIN	88 67	88 67	84 67	84 66	88 66	88 66	85 68	86 67	84 65	83 67	84 67	87 64	87 66	88 65	88 65	82 65	84 64	78 66	78 65	79 62	81 59	81 58	75 68	76 64	78 58	80 59	83 63	85 63	82 65	79 66	78 64	82.9 64.6	
WAILUKU 386	MAX MIN	82 68	81 66			84 66	81 67	84 67	76 66	82 67			82 65	81 67	80 70	80 71	80 67																	
ISLAND OF HAWAII																																		
HAWAII VOLCNS NP HQ 54	MAX MIN	73 50		74 48	72 52	69 51	73 49	71 47	69 56	71 55	71 54	70 54	74 54	70 53	68 51	70 59	68 50	66 47	64 51		62 48	61 45	61 45	61 45	62 35	69 44	65 47	65 41	65 40	66 40	66 39	69 46	70 46	67.8 47.9
HILO WSO AP 87	MAX MIN	86 62	83 65	87 63	81 66	86 66	91 65	82 66	85 67	88 66	85 66	86 67	86 66	83 70	84 64	83 66	82 64	82 68	75 68	78 69	75 63	77 62	79 64	80 55	79 69	80 64	80 60	83 64	80 68	82 65	83 61	84 62	82.4 64.9	
KAINALIU 73.2	MAX MIN	81 63	81 62	82 60	85 62	82 62	82 63	83 63	80 65	81 61	80 60	81 61	81 62	81 61	80 62	78 61	77 60	82 60	78 60	77 60	77 59	74 57	74 55	78 55	79 55	76 54	72 54	72 56	79 59	79 60	77 59	78 59	78.9 59.8	
KAMUELA 192.2	MAX MIN	78 50	81 50			80 50	80 51	77 51	77 51	78 57			77 49	78 50	82 52	73 60	69 59																	
KAPOHO BEACH 93.11	MAX MIN	85 68	88 72	86 72	85 66	75 66	86 66	83 65	78 67	87 67	86 68	85 67	87 68	88 74	86 67	83 69	82 69	82 71	83 67		77 67	78 67	80 62	79 63	78 62	80 65		81 63	79 64	83 69	84 69	83 65	85 65	82.7 67.0
KEAAU 92	MAX MIN	86 62	84 64			91 61	83 64	89 64	80 65	82 65			84 66	86 67	79 65	81 64	80 64																	
KOHALA MISSION 175.1	MAX MIN	81 63	82 62	82 64	85 62	72 64	79 65	83 67	77 66	79 67	80 69	78 68	80 66	82 64	81 65	79 69	78 66	77 66	77 67		68 64	73 63	72 60	73 61	75 60	75 63	74 65	76 63	76 60	79 61	79 63	78 62	79 63	77.7 64.1
KONA (KAILUA) 68.3	MAX MIN	85 68	85 69			86 68	85 70	86 68	86 68	85 71			85 69	85 69	85 69	84 71	84 69																	
KULANI CAMP 79	MAX MIN	72 42	69 45	68 41	68 41	61 49	69 45	68 42	64 52	60 49	64 44	65 52	60 45	58 56	62 40	62 40	65 45																	
MAUNA LOA SLOPE OBS	MAX MIN	54 36	57 36	55 37	55 35	51 34	57 37	54 40	53 38	55 37	57 37	55 36	54 36	53 36	59 41	55 37	56 38	57 35	51 35															
MOUNTAIN VIEW 91	MAX MIN	80 58	81 59			81 60	80 61	82 57	78 58	79 60			80 60	79 63	79 58	78 58	74 60																	
NAALEHU 14	MAX MIN	82 64	81 65			85 65	80 66	83 64	75 66	80 66			82 65	80 68	70 64	76 64	76 63	78 67	76 66		70 61	75 62	72 55	73 56	72 54	78 54	79 54	74 56	72 61	74 64	73 61	74 60	74 60	76.4 61.9
OOKALA 223	MAX MIN	82 66	80 66	81 67	81 65	72 64	80 65	79 64	78 66	77 67			81 68	81 66	81 69	79 67	76 64	78 64																
OPIHIHALE 2 24.1	MAX MIN	81 55	88 55	89 58	80 57	82 59	88 61	80 63	82 61	82 62	79 61	82 61	83 61	81 62	80 61	80 62	80 59	79 62	77 58		72 60	72 56	77 56	80 55	80 55	75 59	75 56	75 58	77 59	80 60	78 59	79 60	79.8 58.9	
PAHALA 21	MAX MIN	83 63	82 64			85 63	82 63	85 65	76 66	79 61			84 62	79 66	76 62	81 62	85 63																	
PUUKOHOLA HEIAU 98.1	MAX MIN	86 68	89 65	84 67	89 67	89 67	84 67	89 68	87 69	86 69	88 71	89 69	87 63	85 65	87 67	87 67	89 59	88 67	89 67		89 67	81 62	85 64	85 60	83 59	84 59	84 61	82 61	82 65	85 65	84 65	84 67	86.0 65.0	
SOUTH KONA 2-31	MAX MIN	78 59	80 58	77 62	79 58	78 59	76 60	81 58	75 62	76 57	76 61	75 58	81 61	77 60	78 57	78 57	77 54	76 57																
UPOLU POINT USCG 159-2	MAX MIN	84 69	87 69	84 69	82 70	80 69	84 68	83 70	82 69	82 69	83 70	83 69	84 73	87 69	86 71	84 74	84 76	83 69	81 69		81 70	81 67	81 63	78 64	79 67	79 70	78 69	79 65	80 71	83 68	82 68	82 69	83 68	82.2 69.1

SEE REFERENCE NOTES FOLLOWING STATION INDEX

# DAILY TEMPERATURES

HAWAII AND PACIFIC  
DECEMBER 1977

STATION		DAY OF MONTH																															AVERAGE	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
PACIFIC																																		
• • •																																		
EAST OF 180TH MERIDIAN																																		
CANTON ISLAND	MAX MIN	90 81	87 81	89 77		89 82	90 82	88 82	92 81	85 82	91 82		90 80	90 80	89 81	90 76	90 76	90 77		90 77	85 76	87 75	87 81	90 80	89 78			91 80	90 80	90 82	85 81	86 79	88.8 79.6	
JOHNSTON IS WSO AP	MAX MIN	82 77	83 74	81 77	81 76	81 74	79 70	82 75	81 76	83 76	83 77	84 75	82 76	82 77	83 74	82 75	81 73	81 75	80 75	80 75	80 77	81 77	81 77	81 77	81 77	81 77	81 77	82 77	78 74	79 71	81 72	81 76	81.2 75.0	
LEONE	MAX MIN	89 83	89 83	88 79	89 81	89 81	88 83	89 81	90 83	91 84	90 79	90 82	89 85	89 79	89 82	89 84	89 83	89 83	85 81	83 76	86 77	85 80	89 81	92 77	92 79		92 85	92 85	92 85	92 85	91 82	89.3 81.3		
FRENCH FRIGATE SHOALS	MAX MIN	78 68	79 68	77 66	76 66	77 73	80 70	76 68	77 73	82 73	82 69	81 73	82 75	82 73	84 71	82 71	74 70	77 68	79 69	75 66	78 69	78 69	79 68	84 68	80 68	80 69	78 66	78 70	80 71	83 72	82 71	68 77	79.3 69.6	
MIDWAY SAND ISLAND	MAX MIN	66 58	69 57	67 59	71 63	68 60	73 62	79 69	73 67	70 60	77 65	79 64	76 66	74 68	72 62	67 59	68 61	68 65	70 65	72 64	72 63	69 64	69 62	73 64	74 60	65 57	64 54	69 51	70 62	70 61	65 57	67 54	70.5 61.4	
PAGO PAGO WSO AP	MAX MIN	85 78	85 79	85 75	86 79	85 77	86 77	87 79	87 78	88 79	88 79	87 79	87 77	89 79	87 79	89 78	88 80	86 80	84 76	84 77	84 75	84 74	86 75	86 76	87 77	90 79	88 81	88 75	87 76	87 77	87 78	86 78	86.5 77.6	
• • •																																		
WESTERN PACIFIC ISL. NORTH OF 12 N																																		
ANDERSEN AFB GUAM	MAX MIN	82 78	81 77	82 77	82 77	83 77	82 78	83 78	83 75	83 77	82 77	82 77	83 77	83 78	83 78	82 76	83 76	83 78	82 78	82 74	82 77	83 76	83 76	84 77	84 76	84 76	84 76	82 75	83 76	82 77	82 78	83 78	82.6 76.8	
CLARK AFB LUZON	MAX MIN	84 72	86 73	86 72	86 72	86 70	84 66	84 68	82 70	84 68	84 68	86 66	88 72	86 73	88 73	86 72	86 68	86 72	86 72	86 72	84 72	86 72	86 70	86 72	86 70	88 72	86 72	88 72	84 75	86 73	88 73	88 73	88 70	85.8 71.1
GUAM NAS	MAX MIN																																	
GUAM WSMO	MAX MIN	81 75	83 75	84 74	85 73	85 74	84 75	86 72	86 70	84 70	84 70	83 75	85 73	84 73	85 71	86 66	85 72	85 75	84 74	84 71	85 71	83 74	84 72	84 73	84 74	85 73	83 72	84 74	85 75	83 72	85 73	85 75	84.3 72.8	
SAIPAN LORAN	MAX MIN																																	
WAKE ISLAND WSO AP	MAX MIN	84 71	83 74	84 74	83 73	82 70	81 74	83 71	86 72	83 75	86 77	83 76	83 74	81 72	81 70	81 70	84 74	82 74	81 73	81 70	82 71	80 73	81 73	83 75	84 75	81 75	81 75	84 74	81 74	83 75	79 71	79 70	82.3 73.1	
• • •																																		
CAROLINE AND MARSHALL ISLANDS																																		
ENIWETAK	MAX MIN																																	
FALALOP I ULITHI ATOLL	MAX MIN																																	
KAPINGAMARANGI ATOLL	MAX MIN																																	
KOROR WSO	MAX MIN	88 75	88 77	89 77	89 76	91 77	91 77	88 76	90 77	90 76	90 77	90 75	88 75	90 76	88 77	87 77	88 77	90 77	88 76	88 77	90 76	89 75	90 76	84 75	88 78	88 76	88 75	89 76	88 76	88 76	89 76	89 76	88.8 76.2	
KWAJALEIN MISSILE RGN	MAX MIN	85 76	88 80	85 76	85 76	87 80	87 80	87 76	83 77	87 79	87 81	87 78	88 78	85 78	87 81	87 76	88 80	86 81	86 78	87 78	87 80	85 75	87 78	87 80	87 80	86 81	83 78	87 80	86 81	86 79	85 77	86 75	86.3 78.5	
LELE I KOSRAE	MAX MIN																																	
MAJURO WSO AP	MAX MIN	87 76	89 78	88 80	83 75	86 75	87 77	85 76	88 76	87 77	87 80	87 78	88 74	86 72	84 74	84 73	86 72	82 72	83 70	84 74	85 75	85 78	85 77	86 77	87 77	87 80	89 76	89 78	87 80	86 76	85 79	86 79	85 79	86.0 76.2
METALANIM	MAX MIN	89 74	86 74	85 77	86 73	86 78	86 76	86 75	85 75	86 74	87 75	87 72	87 80	87 78	86 76	86 80	85 78	85 77	85 76	85 77	85 71	84 76	87 72	87 70	86 71	86 74	85 73	85 72	89 76	87 75	85 78	85 77	86.0 75.0	
PONAPE WSO	MAX MIN	90 74	82 74	88 75	90 73	89 77	86 77	90 73	90 66	90 74	89 75	88 77	90 77	88 76	89 78	89 90	88 79	89 75	88 79	89 75	89 71	89 75	88 73	89 70	90 72	89 70	89 73	90 75	90 75	89 75	87 79	87 76	88.6 74.7	
SATAWAN ATOLL	MAX MIN																																	
TRUK. MOEN I. WSO AP	MAX MIN	88 78	87 79	87 79	87 80	88 77	86 77	87 75	86 74	87 76	86 76	87 79	89 79	87 78	88 79	88 79	87 80	86 79	86 80	87 79	87 75	86 76	86 75	87 77	86 74	86 76	84 77	86 79	86 77	88 79	88 78	86.8 77.6		
WOLEAI ATOLL	MAX MIN																																	
YAP WSO AP	MAX MIN	86 73	87 76	89 77	87 76	87 77	88 75	89 72	88 74	88 77	89 74	87 71	85 71	86 75	85 72	88 72	87 75	87 74	87 75	87 77	87 75	87 75	87 75	87 75	88 75	88 77	86 74	87 73	85 75	86 74	87 74	87 75	84 75	86.9 74.6

SEE REFERENCE NOTES FOLLOWING STATION INDEX

# EVAPORATION AND WIND

HAWAII AND PACIFIC  
DECEMBER 1977

STATION		DAY OF MONTH																															TOTAL OR AVG.	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
HAWAII * * * ISLAND OF KAUAI																																		
LIHUE WSO 1020.1 AP		EVAP	.15	.21	.13	.15	.23	.07	.02	.30	.13	.11	.57	.27	.07	.11	.30	.27	.24	.30	.33	.17	.17	.21	.26	.21	.25	.27	.45	.31	.13	.15	-	6.768
	WIND	89	93	77	67	116	91	89	154	77	91	80	69	107	126	203	298	250	278	267	144	74	94	162	171	103	180	141	84	85	72	-	40638	
	MAX	85	85	78	80	79	80	75	84	85	84	85	87	85	84	83	74	73	75	72	73	77	78	78	78	77	78	78	81	85	84	-	80.0	
	MIN	68	62	64	57	57	63	61	60	64	64	64	62	66	66	67	66	66	64	60	59	60	59	59	59	61	59	63	64	63	62	63	-	62.3
* * * ISLAND OF OAHU																																		
HONOLULU OBSERV 702.2		EVAP	.30	.30	.30	.05	.30	.22	.08	.30	.15	.27	.15	.15	.30	.30	.30	.10	.14	.15	.36	.30	.28	.25	.30	.37	.30	.40	.29	.44	.20	.15	.28	7.78
	WIND	54	28	75	53	22	25	52	21	21	26	29	28	20	22	23	40	40	43	51	42	27	24	29	42	32	26	65	59	26	23	28	1096	
	MAX	86	89	87	86	83	83	85	84	87	86	85	86	88	86	85	84	84	81	83	81	78	79	80	80	80	81	76	76	85	85	85	83.4	
	MIN	67	67	70	60	60	67	67	65	65	66	65	65	66	66	65	65	65	65	65	60	57	58	58	55	55	55	54	60	65	63	64	61	62.6

SEE REFERENCE NOTES FOLLOWING STATION INDEX



# EVAPORATION AND WIND

HAWAII AND PACIFIC  
DECEMBER 1977

STATION		DAY OF MONTH																															TOTAL OR AVG.	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
PACIFIC																																		
* * * FAST OF 180TH MERIDIAN																																		
JOHNSTON IS WSO AP	EVAP	.29	-	-	-	-	-	.77	.70	.67	.74	.61	.50	.68	.64	.56	.80	.53	.32	.35	.26	.34	.45	.47	.39	.65	.33	.27	■	■	.33	.14	.22	14.328
	WIND	111	164	254	193	121	112	148	125	156	143	108	137	166	193	270	331	306	273	264	270	230	225	289	391	276	180	161	■	168	167	141	6073	
	MAX	-	-	-	79	85	82	86	87	87	89	91	86	86	85	82	82	82	82	81	80	81	82	83	82	83	85	82	-	82	85	84	83.7	
	MIN	-	-	-	68	71	70	70	68	70	71	71	71	71	72	72	70	70	71	70	70	70	71	71	71	71	74	68	-	68	68	72	70.4	
* * * WESTERN PACIFIC ISL. NORTH OF 12 N																																		
GUAM WSMO	EVAP	.04	.16	-	.28	.26	.22	.15	.16	.13	.22	.30	.21	.23	.23	.22	.25	.20	.26	.23	.25	.25	.20	.27	.32	.24	.22	.30	.24	.14	.27	6.908		
	WIND	215	213	130	153	178	137	68	24	65	63	146	137	140	85	91	93	136	96	84	85	155	112	117	132	148	102	135	167	186	274	222	4089	
	MAX	83	83	83	89	89	87	94	95	90	89	87	89	86	89	91	89	90	92	89	86	86	86	87	86	88	88	87	89	88	83	85	87	88.1
	MIN	74	75	72	73	74	73	72	72	73	70	70	69	70	72	69	70	71	71	69	68	71	68	70	69	70	69	69	68	73	74	73	71.0	

SEE REFERENCE NOTES FOLLOWING STATION INDEX

## STATION INDEX

HAWAII AND PACIFIC  
DECEMBER 1977

STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES				OBSERVER
								TEMP.	PRECIP.	EVAP.	SPECIAL (SEE NOTES)	
HAWAII												
ISLAND OF KAUAI												
ALEXANDER RESV. 983	0140	02	KOLOA	2	21 57	159 32	1610					MCBRYDE SUGAR CO.
ANAHOLA 1114	A 0145	01	KAWAIIHAU	1	22 08	159 18	180		7A			LIHUE PLANTATION CO
BRYDESWOOD STA 985	A 0240	02	KOLOA	2	21 56	159 32	720		7A			MC BRYDE SUG CO LTD
EAST LAWA 934	A 0456	02	KOLOA	2	21 55	159 30	440		7A			MC BRYDE SUG CO LTD
ELEELE 927	A 0470	02	KOLOA	2	21 54	159 35	150		6A			MC BRYDE SUG CO LTD
HALAULA 1110	A 0935	01	KAWAIIHAU	1	22 07	159 19	253		7A			LIHUE PLTN CO LTD
HALENANAO 1006	A 1038	02	LIHUE	2	21 58	159 26	490		8A			LIHUE PLANTATION CO
HANAHANAPUNI 1055.2	1140	02	KAUAI	2	22 03	159 25	600					LIHUE PLANTATION CO LTD
HANAIEI TUNNEL 1053	A 1170	01	KAWAIIHAU	1	22 05	159 28	1218		MO			LIHUE PLTN CO LTD
HUKIPO 945	2161	03	WAIMER	3	21 59	159 41	800		8A			KEKAHA SUGAR CO LTD
ILIILILUA INTAKE 1050	A 2222	02	LIHUE	2	22 02	159 28	1050		VAR			LIHUE PLTN CO LTD
INTAKE WAINIHA PC 1086A	2227	01	HANAIEI	1	22 09	159 34	690		WI			MC BRYDE SUG CO LTD
KANALOHULUHULU 1075	3099	03	WAIMER	3	22 08	159 40	3600	7A	7A			STATE DIVISION OF PARKS
KANEHA RESERVOIR 1092	A 3104	01	KAWAIIHAU	1	22 08	159 23	830		7A			LIHUE PLANTATION
KAPAA STABLES 1104	A 3159	01	KAWAIIHAU	1	22 05	159 20	175		7A			LIHUE PLTN CO LTD
KEALIA 1112	A 3982	01	KAWAIIHAU	1	22 06	159 19	9		7A			LIHUE PLTN CO LTD
KEKAHA 944	4272	03	WAIMER	3	21 58	159 43	9		8A			KEKAHA SUGAR CO LTD
KILAUEA 1134	A 4561	01	HANAIEI	1	22 13	159 25	320		7A			NICK RAPOZO
KILAUEA POINT 1133	4568	01	HANAIEI	1	22 14	159 24	180	7A	7A			MRS ELIZABETH MACIOLEK
KOLO 1033	4735	03	WAIMER	3	22 04	159 46	36		7A			KEKAHA SUGAR CO LTD
KOLOA 936	A 4742	02	KOLOA	2	21 55	159 28	240		8A			MCBRYDE SUGAR CO
KOLOA LN (MAK) 940.1	4748	01	KAUAI	2	21 52	159 27	52	7A	7A			AUSCG LORAN STATION
KOLOA MAUKA 994	A 4750	02	KOLOA	2	21 57	159 29	640		7A			MCBRYDE SUGAR COMPANY
KUKUIULA 935	A 4950	02	KOLOA	2	21 54	159 30	100		6A			MC BRYDE SUG CO LTD
LIHUE VARIETY ST 1062	A 5560	02	LIHUE	2	22 01	159 23	380		7A			LIHUE PLANTATION CO LTD
LIHUE 1020	A 5575	02	LIHUE	2	21 59	159 22	207		7A			LIHUE PLTN CO LTD
LIHUE WSO 1020.1 AP	R 5580	02	LIHUE	2	21 59	159 21	103	MID	MID	7A	J	NATL WEATHER SERVICE
MAKAWELI 965	A 5864	03	WAIMER	3	21 55	159 38	140		7A			OLOKELE SUGAR CO
MANA 1026	6082	03	WAIMER	3	22 02	159 46	20	8A	8A			KEKAHA SUGAR CO LTD
MOHIHI UPR CROSS 1083	A 6433	01	WAIMER	3	22 07	159 36	3500		MID			U S GEO SURVEY
MOLOAA 1145	A 6529	01	KAWAIIHAU	1	22 11	159 20	330		7A			THEODORE JAVELLANA JR
MOUNT WAIALEALE 1047	R 6565	03	WAIMER	2	22 04	159 30	5148		MID			U. S. GEO. SURVEY
NIU RIDGE 1035	6850	03	WAIMER	3	22 02	159 44	1250	6A	6A			KEKAHA SUGAR CO LTD
N WAILUA DITCH 1051	A 6888	02	LIHUE	2	22 04	159 28	1110		7A			LIHUE PLTN CO LTD
N WAILUA RIVER 1055	A 6893	02	LIHUE	2	22 04	159 26	650		MO			LIHUE PLTN CO LTD
PH WAINIHA 1115	8155	01	HANAIEI	1	22 12	159 34	101		6A			MC BRYDE SUG CO LTD
PRINCEVILLE RANCH 1117	8165	01	HANAIEI	1	22 13	159 29	295		9A			PRINCEVILLE RANCH INC
PUEHU RIDGE 1040	8205	03	WAIMER	3	22 01	159 42	1660		8A			KEKAHA SUGAR CO LTD
PUHI 1013	A 8217	02	LIHUE	2	21 58	159 24	329		8A			LIHUE PLANTATION CO
WAHIAWA 930	A 8941	02	KOLOA	2	21 54	159 34	215		7A			MC BRYDE SUG CO LTD
WAIKAWA LOWER 1054	8958	02	LIHUE	2	22 01	159 27	565	6A	6A			LIHUE PLTN CO LTD
WAIKAWA UPPER 1052	8966	02	LIHUE	2	22 01	159 28	780		6A			LIHUE PLTN CO LTD
WAIKAWA 943	9253	03	WAIMER	3	21 59	159 43	10		8A			KEKAHA SUGAR CO LTD
WAILUA KAI 1065	A 9467	02	LIHUE	2	22 02	159 21	50		7A			LIHUE PLANTATION
WAIMER 947	9629	03	WAIMER	3	21 58	159 41	20		8A			KEKAHA SUGAR CO.
WEST LAWA 931	A 9955	02	KOLOA	2	21 54	159 31	210		6A			MC BRYDE SUG CO LTD
ISLAND OF OAHU												
AHUIMANU LOOP 839.12	0055	01	KOOLAUPOKO	1	21 26	157 51	320					DON MITCHELL
ALOHA STADIUM-HALAWA	0172	03	OAHU	3	21 23	157 56	40	8A	8A			ALOHA STADIUM
BERETANIA PUMPING STA	0211	02	HONOLULU	2	21 19	157 51	20		9A			BOARD OF WTR SUPPLY
8 Y U LAIE 903.1	0240	01	KOOLAUPOKO	1	21 39	157 56	20	12M	12M			8 Y U-HAWAII CAMPUS
CAMPBELL IND PK 702.5	0248	02	OAHU	3	21 19	158 07	10		8A			CHEVRON U S A INC
CAMP 84 807	A 0300	03	EWA	3	21 26	158 04	760		6A			OEL MONTE CORPORATION
COCONUT ISLAND 840.1	0350	01	KOOLAUPOKO	1	21 26	157 47	15		8A			H INST MARINE BIOLOGY
DOWSETT HIGHLDS 780.8	0438	02	HONOLULU	2	21 21	157 50	565					J.L. BANNING
EWA PLANTATION 741	0507	03	EWA	3	21 21	158 02	5	9A	7A			OAHU SUGAR COMPANY
HALAWA SHAFT 771.2	0964	02	HONOLULU	2	21 23	157 54	170					BOARD OF WATER SUPPLY
HAWAII KAI CRSE 724.19	1308	02	OAHU	2	21 18	157 39	21					HAWAII KAI GOLF COURSE
HELEMANO INTAKE 881	A 1384	05	WAILUA	5	21 33	158 00	1274		WI			WAILUA SUGAR CO. INC.
HOKULOA 725.2	A 1540	03	EWA	3	21 24	158 06	2220					H. V. VON HOLT
HONOLULU OBSERV 702.2	1918	03	EWA	3	21 19	158 00	5		9A	9A		NATIONAL WEATHER SERV
HONOLULU WSO 703 AP	A 1919	02	HONOLULU	2	21 20	157 55	7	MID	MID		J	NATL WEATHER SERVICE
KAA LAKEI 724.6	2269	02	HONOLULU	2	21 18	157 43	10					MRS. MILLIE ZAPATA
KAENA POINT 841.3	2410	04	WAILUA	4	21 34	158 15	1240		9A			U S AIR FORCE
KAHANA 883	A 2462	01	KOOLAUPOKO	1	21 31	157 54	800		WI			WAIKAWA WTR CO LTD

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## STATION INDEX

HAWAII AND PACIFIC  
DECEMBER 1977

STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES				OBSERVER
								TEMP.	PRECIP.	EVAP.	SPECIAL (SEE NOTES)	
ISLAND OF OAHU												
KAHUKU 912	A	2570	01	KOOLAULOA	1 21 42	157 59	15				C	KIULIMA HOTEL
KAILUA FIRE STA 791.3		2683	01	KOOLAUPOKO	1 21 24	157 45	10		8A		C	KAILUA FIRE STATION
KALIHU RES SITE 777	R	2960	02	HONOLULU	2 21 23	157 50	910		M10			BOARD OF WTR SUPPLY
KANEHE MAUKA 781		3113	01	KOOLAUPOKO	1 21 25	157 49	325	7A	7A			STATE HOSPITAL
KAPALAMA 773	A	3268	02	HONOLULU	2 21 21	157 52	614		8A			KAMEHAMEHA SCHOOLS
KAWAIHAPAI 841	A	3734	05	WAIALUA	5 21 35	158 11	40		7A			WAIALUA SUGAR CO. INC.
KEMOO CAMP 8 855	A	4318	05	WAIALUA	5 21 33	158 05	725		7A			WAIALUA SUGAR CO. INC.
KODLAU DAM 833	A	4766	05	WAIKAWA	5 21 30	157 58	1160		8A			C & F OFFICER HEOG
LULUKU 781.7		5655	01	KOOLAUPOKO	1 21 24	157 49	240				C	NATIONAL WEATHER SERV
MAKAHA PUMP 800.2	A	5782	04	OAHU	4 21 29	158 12	400		8A		C	CAPITAL INVESTMENT CO.
MAKAKILO 730.1		5789	03	OAHU	3 21 21	158 06	300		6A			NEAL ADAMS
MANOA LYON ARBORETUM		6128	02	OAHU	2 21 20	157 48	500	8A	8A			LYON ARBORETUM
MANOA TUNNEL 2 716	R	6130	02	HONOLULU	2 21 20	157 48	650		M10			BOARD OF WTR SUPPLY
MAUNAWILI 787.1		6222	01	KOOLAUPOKO	1 21 21	157 46	395				C	EXP. STA. H.S.P.A.
MOANALUA 770		6395	02	HONOLULU	2 21 21	157 54	20		9A			JOHN A ROXBURGH
MOUNT KAALA 844		6553	04	WAIANAE	4 21 31	158 09	4015				C	FEDERAL AVIATION ADM
NUUANU RES 4 783		6928	02	HONOLULU	2 21 21	157 49	1048		M10			BOARD OF WTR SUPPLY
NUUANU RESERVR 5 775	A	6933	02	HONOLULU	2 21 21	157 50	410		W1			BOARD OF WTR SUPPLY
OPAEULA 870	A	7150	05	WAIALUA	5 21 34	158 02	1060	7A	7A		C	WAIALUA SUGAR CO. INC.
PAIKO DR 723.4		7540	02	HONOLULU	2 21 17	157 44	10		6P			O L GRUBB
PALI GOLF COURSE 788.1		7656	01	OAHU	1 21 23	157 47	480		10A			CC DEPT PKS RECREATION
PALOLO VALLEY 718	R	7664	02	HONOLULU	2 21 20	157 46	995		M10			BOARD OF WTR SUPPLY
PAUOA FLATS 784	R	7810	02	HONOLULU	2 21 21	157 48	1640		M10			BOARD OF WTR SUPPLY
PEARL COUNTRY CL 760.2		7942	03	OAHU	3 21 23	157 56	120				C	PEARL COUNTRY CLB OF HA
PUNALUU PUMP 905.2		8314	01	KOOLAULOA	1 21 35	157 54	20				C	MRS DAVIO OELAO
PUNCHBOWL CRATER 709	A	8316	02	HONOLULU	2 21 19	157 51	360		8A			NAT MEM CEMETERY
PUPUKA HEIGHTS 896.4		8342	01	WAIALUA	1 21 39	158 02	900				C	JACK N. WHEELER
PUU MANAWAHUA 725.6		8500	03	OAHU	3 21 23	158 05	2080		8A			HUGH HAMILTON
TANTALUS 2 780.5		8738	02	HONOLULU	2 21 20	157 50	1325		7A			R. E. WHITE
UNIV OF HAWAII 713	A	8815	02	HONOLULU	2 21 18	157 49	79		8A			DEPT OF GEOSCIENCE
WAIKAWA DAM 863	A	8945	05	WAIKAWA	5 21 30	158 03	854		7A		C	WAIALUA SUGAR CO. INC.
WAIHOLE 837	A	8964	01	KOOLAUPOKO	1 21 28	157 53	745		8A		C	WAIHOLE WTR CO LTD
WAIALAE KAHALA 715		9185	02	HONOLULU	2 21 17	157 47	40		7A			SPENCER TINKER
WAIALEE 896.3		9190	01	KOOLAULOA	1 21 41	158 02	33	8A	8A			WAIALEE LIVESK RES FARM
WAIALUA 847	A	9195	05	WAIALUA	5 21 35	158 07	32	7A	7A			WAIALUA SUGAR CO. INC.
WAIANAE 798.2	A	9231	04	WAIANAE	4 21 27	158 11	10		7A			BEN MAYES
WAIKAWA 836	A	9261	03	EWA	3 21 28	157 56	800		M0			WAIHOLE WTR CO LTD
WAIKANE 885	A	9340	01	KOOLAUPOKO	1 21 30	157 53	760		W1			WAIHOLE WTR CO LTD
WAIKIKI 717.2		9397	02	HONOLULU	2 21 16	157 49	10	8A	8A			HONOLULU ZOO
WAILUPE VLY SCH 723.6		9500	02	HONOLULU	2 21 18	157 45	180				C	WAILUPE VALLEY SCHOOL
WAIMANALO EXP FARM		9523	01	KOOLAUPOKO	1 21 20	157 43	60	7A	7A			WAIMANALO EXP FARM
WAIMANALO NONOKI 795.2		9534	01	OAHU	1 21 20	157 43	120				C	WAIMANALO EXP FARM
WAIKANE 892	A	9593	05	WAIALUA	5 21 38	158 04	330		7A		C	WAIALUA SUGAR CO INC
WAIKAWA 750	A	9738	03	EWA	3 21 23	158 01	59		8A			WAIHOLE WATER COMPANY
WILHELMINA R15E 721	R	9980	02	HONOLULU	2 21 18	157 47	1100		M10			BOARD OF WTR SUPPLY
ISLAND OF MOLOKAI												
KALAUPAPA 563	A	2896	01	MOLOKAI	1 21 12	156 59	30		8A			KALAUPAPA SETTLEMENT
KAUNAKAKAI 536		3541	01	MOLOKAI	1 21 06	157 01	12		7A			MOLOKAI RANCH LTD
KAUNAKAKAI MAUKA 536.5		3547	01	MOLOKAI	1 21 06	157 01	70				C	MOLOKAI GENERAL HOSP.
KEONELELE PENS 551	A	4394	01	MOLOKAI	1 21 12	157 12	560		VAR			MOLOKAI RANCH. LTD.
KUALAPUU 534	A	4778	01	MOLOKAI	1 21 09	157 02	825		7A			OEL MONTE CORPORATION
MAUNALO 511	A	6190	01	MOLOKAI	1 21 08	157 13	1070		9A			MOLOKAI RANCH COMPANY
MOLOKAI AP 524		6534	01	MOLOKAI	1 21 09	157 06	450	8A	8A			ALDHA AIRLINES
PUU O HOKU RANCH 542.1		8549	01	MOLOKAI	1 21 09	156 44	700		6A			CHARLIE APIA (FOREMAN)
WAIKOLU 540	A	9404	01	MOLOKAI	1 21 08	156 55	3550		W1			MOLOKAI RANCH COMPANY
ISLAND OF LANAI												
KANEPUU 690	A	3130	01	LAHAINA	1 20 52	157 00	1650		W1			U S O A
KAUNALAPAU HARBOR 658		3461	01	LAHAINA	1 20 47	157 00	30		8A			OOLE COMPANY
LANAI AIRPORT 656		5275	01	LAHAINA	1 20 48	156 57	1300	8A	8A			HAWAIIAN AIR
LANAI CITY 672	A	5286	01	LAHAINA	1 20 50	156 55	1620	7A	7A			OOLE COMPANY
LANAIHALE 684	A	5301	01	LAHAINA	1 20 49	156 53	3370		W1			U S O A
MAHANA 694	A	5704	01	LAHAINA	1 20 52	156 55	1430		M0			U S O A
MALAEUA 676	A	6012	01	LAHAINA	1 20 46	156 55	1150		W1			U S O A
WAIKAEKUA 685	A	9021	01	LAHAINA	1 20 47	156 52	2000		WM			KOELE COMPANY
ISLAND OF MAUI												
AUWAHI 252	A	0175	02	HANA	2 20 37	156 28	2060		VAR			ULUPALAKUA RANCH

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								TEMP.	PRECIP.	EVAP.	SPECIAL (SEE NOTES)	
ISLAND OF MAUI												
HAELAAU 477	A 0790	04	LAHA'INA	4	20 57	156 36	2980		MO			MAUI LANO-PINEAPPLE CO U OF H AGRIC EXP STA HALEAKALA RANCH CO HALEAKALA NAT PARK MAUI LANO-PINEAPPLE CO HAWAIIAN COM & SUG CO HARRY HASEGAWA ROYAL HAWAIIAN AIRLINES HALEAKALA NATL PARK RGS MAUI LANO-PINEAPPLE CO
HALEAKALA B E S 434	A 0995	01	MAKAWAO	1	20 51	156 18	2100		7A			
HALEAKALA RANCH 432	A 0999	01	MAKAWAO	1	20 50	156 19	1850		8A			
HALEAKALA RS 338	1004	02	MAKAWAO	2	20 46	156 15	7030	8A	8A			
HALIIMAILE 423	A 1075	01	MAKAWAO	1	20 52	156 21	1070		3A			
HAMAKUAPOKO 485	1086	01	MAKAWAO	1	20 55	156 21	320		5A			
HANA 354	A 1122	01	HANA	1	20 45	155 59	120		8A		C	
HANA AIRPORT 355	1125	01	HANA	1	20 48	156 01	61	8A	8A			
HOLUA CABIN 259.5	A 1552	02	MAKAWAO	2	20 45	156 13	6930		MO			
HONOKOHU 480	A 1882	04	LAHA'INA	4	20 58	156 36	870		MO			
HONOKOHU 493	A 1887	04	LAHA'INA	4	21 00	156 39	135		6A			MAUI LANO-PINEAPPLE CO MAUI LANO-PINEAPPLE CO HALEAKALA RANCH CO STATE DIVISION OF PARKS AMFAC PROPERTIES INC PIONEER MILL CO LTO NATL WEATHER SERVICE E MAUI IRR CO LTO E MAUI IRR CO LTO PIONEER MILL CO LTO
HONOLUA FIELDO 49 494	A 1914	04	LAHA'INA	4	21 01	156 38	125		MO			
HONOMANU CULCH 341	A 1935	01	MAKAWAO	1	20 47	156 14	6280		MO			
IAO NEEOLE 387.2	2208	03	WAILUKU	3	20 53	156 33	1080				C	
KAAHAPALI AP 453.1	2307	04	LAHA'INA	4	20 56	156 42	8	8A	8A			
KAHOMA INTAKE 374	A 2552	04	LAHA'INA	4	20 54	156 38	2000		WI			
KAHULUI WSO 398 AP	R 2572	03	WAILUKU	3	20 54	156 26	48	MIO	MIO		C J	
KAILIILI 436	A 2630	01	MAKAWAO	1	20 51	156 16	2520		MO			
KAILUA 446	2679	01	MAKAWAO	1	20 54	156 13	700	7A	7A			
KAUAULA INTAKE 375	A 3433	04	LAHA'INA	4	20 53	156 38	1585		WI			
KAUPO RANCH HOUSE 259	3576	02	HANA	2	20 39	156 08	1020				C	KAUPO RANCH HAWAIIAN COM & SUG CO E MAUI IRR CO LTO ALLEN L CORELL HAWAIIAN COM & SUG CO HANA RANCH-KIPAHULU SEC MAUI LANO-PINEAPPLE CO KULA SANATORIUM PIONEER MILL CO LTO PIONEER MILL CO LTO
KEAHUA 410	3910	03	MAKAWAO	3	20 52	156 23	480		5A			
KEANAE 346	A 4091	01	HANA	1	20 50	156 10	980		MO			
KEAWAKAPU BEACH 260.2	A 4193	02	MAKAWAO	2	20 42	156 27	20	8A	8A		C	
KIHEI 311	4489	03	WAILUKU	3	20 47	156 27	90		7A			
KIPAHULU 258	4634	01	HANA	1	20 39	156 04	260		7A			
KUKUI 380	A 4887	04	LAHA'INA	4	20 54	156 35	5788		MO			
KULA SANATORIUM 267	5006	02	MAKAWAO	2	20 42	156 22	3004	7A	7A			
LAHA'INA 361	5177	04	LAHA'INA	4	20 53	156 41	45	7A	7A		C	
LAUNIUPOKO INTAKE 376	A 5404	04	LAHA'INA	4	20 51	156 37	1280		WI			
LAUNIUPOKO VILLAGE 372A	5408	04	LAHA'INA	4	20 51	156 39	220		7A			PIONEER MILL CO LTO E MAUI IRR CO LTO PIONEER MILL CO LTO MAUI LANO-PINEAPPLE CO MAUI LANO-PINEAPPLE CO EAST MAUI IRRIGATION CO PIONEER MILL CO LTO E MAUI IRR CO LTO HAWAIIAN COM & SUG CO KAUPO RANCH CO.
LUPI UPPER 442	A 5665	01	MAKAWAO	1	20 53	156 15	1240		MO			
MAHINAHINA 466	A 5715	04	LAHA'INA	4	20 57	156 40	715		7A			
MOKUPEA 475	A 6521	04	LAHA'INA	4	20 59	156 37	1290		MO			
NAKALELE FIELDO 60 497	A 6645	04	LAHA'INA	4	21 02	156 36	340		VAR			
OLINDA 332	A 7040	01	MAKAWAO	1	20 48	156 17	4127		VAR			
OWALU 296.1	7059	04	LAHA'INA	4	20 49	156 37	20		7A			
PAAKEA 350	7194	01	HANA	1	20 49	156 07	1260		VAR			
PAIA 406	7566	01	WAILUKU	1	20 55	156 23	170		6A			
PANILEIHULU 259.2	A 7674	02	HANA	2	20 41	156 08	3570		MO			
PEAHI 488.6	7952	01	MAUI	1	20 54	156 17	830		WI		C	BERNARD RUPLINGER WAILUKU SUGAR CO STATE DIV OF FORESTRY E MAUI IRR CO LTO HAWAIIAN COM & SUG CO EAST MAUI IRRIGATION CO HAWAIIAN COM & SUG CO KAONOLU RANCH UH MAUI AGRI RESCH CNTR HALEAKALA RANCH CO
POHAKEA BRIDGE 307.2	A 8060	03	WAILUKU	3	20 49	156 31	167		6A			
POLIPOLI SPRINGS 267.2A	8070	02	MAKAWAO	2	20 41	156 20	6150		VAR			
PUDOHOKA 2 343	A 8336	01	HANA	1	20 50	156 13	2980		MO			
PUUNENE 396	8543	03	WAILUKU	3	20 53	156 27	60		7A			
PUU PAKI 352	A 8553	01	HANA	1	20 46	156 03	2160				5	
SPRECKELSVILLE 400.2	8688	03	WAILUKU	3	20 54	156 25	85		8A			
TWIN GATES 261.3	A 8742	03	MAKAWAO	3	20 46	156 23	1310		VAR			
UH AGRI RES CNTR 324.5	8743	02	MAUI	2	20 46	156 20	3050					
UKULELE 333	A 8744	01	MAKAWAO	1	20 48	156 15	5230		MO			
UKUMEHAME 301	A 8750	04	LAHA'INA	4	20 48	156 35	75		7A			PIONEER MILL CO LTO ULUPALAKUA RCH CO LTO PIONEER MILL CO LTO WAILUKU SUGAR CO WAILUKU SUGAR CO E MAUI IRR CO LTO EAST MAUI IRRIGATION CO WAILUKU SUGAR CO EAST MAUI IRRIGATION CO WAILUKU SUGAR COMPANY
ULUPALAKUA RANCH 250	8760	02	MAKAWAO	2	20 39	156 24	1900		8A		C	
WAHIKULI 364	A 8955	04	LAHA'INA	4	20 54	156 40	580		8A			
WAIHEU CAMP 484	A 9275	03	WAILUKU	3	20 55	156 31	320		6A			
WAIHEE VALLEY 482	A 9315	04	WAILUKU	4	20 57	156 32	300		6A			
WAIKAMOI 449	A 9332	01	HANA	1	20 52	156 12	1200		MO			
WAIKAMOI DAM 336	A 9335	01	MAKAWAO	1	20 49	156 14	4320		VAR		C	
WAIKAPU 390	A 9376	03	WAILUKU	3	20 51	156 31	370		6A			
WAILUA IKI 348	A 9460	01	HANA	1	20 48	156 09	2630				5	
WAILUKU 386	A 9484	03	WAILUKU	3	20 54	156 30	180	7A	7A			
WAIOPAI RANCH 256	A 9765	02	HANA	2	20 38	156 12	220		OC			HALEAKALA RANCH CO
ISLAND OF HAWAII												
AHUA UMI 75	A 0040	05	N KONA	5	19 38	155 47	5220		MO			W.H. GREENWELL RANCH NAT HISTORICAL PARK HONOKAA SUGAR CO MAUNA KEA SUGAR CO
CITY OF REFUGE 27.4	0344	04	S KONA	4	19 25	155 55	15		9A			
HAINA 214	0840	01	HAMAKUA	1	20 06	155 28	461		8A			
HAKALAU 142	0905	02	S HILO	2	19 54	155 08	105		7A			

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								TEMP.	PRECIP.	EVAP.	SPECIAL (SEE NOTES)	
ISLAND OF HAWAII												
HALEMAUMAU 52	A 1033	03	KAU	3	19 24	155 17	3648		MO			HAWAII NAT PARK
HALEPOHAKU 111	A 1065	02	HAMAKUA	2	19 46	155 28	9220		3P			MAUNA KEA OBSERVATORY
HA'S FARM B5.3	1270	02	HAWAII	2	19 40	155 06	580		BA			RICHARD HA JR
HAWAII VOLCNS NP HQ 54	1303	02	KAU	2	19 26	155 16	3971	8A	BA		C	HA VOLCANOES NAT PK HQS
HAWI 16B	A 1339	01	N KOHALA	1	20 14	155 50	580		6A		C	K L BONO
HILO COUNTRY CLUB 86.6	1487	02	HAWAII	2	19 41	155 10	1600		7A		C	REX WILLS II
HILO W50 AP 87	R 1492	02	S HILO	2	19 43	155 04	36	M10	M10		C	NATL WEATHER SERVICE
HOLUALOA 70	A 1557	04	N KONA	4	19 38	155 55	3220		MO			STATE DIV OF FORESTRY
HOLUALOA BEACH 68	A 1562	04	N KONA	4	19 37	155 59	14		7A			CAPT COOK CATTLE CO
HONANAU 27	1665	04	S KONA	4	19 27	155 53	1089		7A			SHIGETO L TANAKA
HONOHINA 137	1701	02	N HILO	2	19 56	155 09	300		7A			MAUNA KEA SUGAR CO
HONOMU MAUKA 13B	1960	02	S HILO	2	19 51	155 09	1100		7A		C	MAUNA KEA SUGAR CO
HONUAULA 71	A 2047	04	N KONA	4	19 40	155 53	6250		MO			STATE DIV OF FORESTRY
HUALALAI 72	A 2151	04	N KONA	4	19 42	155 52	8190		MO			STATE DIV OF FORESTRY
HUEHUE 92.1	A 2156	04	N KONA	4	19 45	155 59	1960		6A			HUEHUE RANCH
KAAALA IKI 12	A 2249	03	KAU	3	19 08	155 34	1340		WI			KAU SUGAR COMPANY, INC
KAAWALO 29	A 2327	04	SOUTH KONA	4	19 30	155 55	1340		BA			CAPT COOK INVESTMENT CO
KAHIWAHI MAUKA 3.8	2512	03	KAU	3	19 08	155 46	4120				C	RUSSELL P. SMITH
KAHUA RCH HOTS 176.3	2600	01	HAWAII	1	20 08	155 48	3240				C	KAHUA RANCH COMPANY
KAINALIU 73.2	2751	04	N KONA	4	19 32	155 56	1500	7A	7A			KONA EXPERIMENT STA
KALAOA 69.22	2887	04	HAWAII	4	19 44	155 59	2000		BA			FLOYD W MC COY
KALAPANA 1 67.8	2894	02	S HILO	2	19 20	155 02	10		VAR			HAWAII VOLCANOES NAT PK
KAMAOKA 2 5	A 3048	03	KAU	3	19 02	155 40	1375		WI			PARKER RCH-KAPAPALA DIV
KAMUELA 192.2	3077	01	S KOHALA	1	20 01	155 40	2670	6A	6A			PARKER RANCH
KAPAPALA RANCH 36	A 3300	03	KAU	3	19 17	155 27	2140		6A			PARKER RCH-KAPAPALA DIV
KAPOHO BEACH 93.11	3368	02	HAWAII	1	19 30	154 49	10	BA	BA			H E MC NICHOLS
KAPOHO LANDING 93.5	A 3369	02	PUNA	2	19 30	154 52	290		VAR			DEPT OF PUBLIC WORKS
KAWAINUI LOWER 193	A 3770	01	HAMAKUA	1	20 05	155 39	1080		WI			HONOKAA SUGAR CO
KEAAU 92	3872	02	PUNA	2	19 38	155 02	285	8A	BA			PUNA SUGAR CO
KEAIIWA CAMP 22.1	3925	03	KAU	3	19 14	155 29	1700				C	KAU SUGAR COMPANY, INC
KEALAKEKUA 26.2	3977	04	S KONA	4	19 30	155 55	1450				C	HERBERT KANE
KEANAKOLU CAMP 124.2	4098	02	HAMAKUA	2	19 55	155 21	5280				C	STATE DIV OF FORESTRY
KIOLAKAA A & F 6	A 4625	03	KAU	3	19 04	155 38	1925		MO			STATE DIV OF FORESTRY
KIPA 89.2	A 4632	02	S HILO	2	19 44	155 09	1490		WI			MAUNA KEA SUGAR CO.
KOHALA MISSION 175.1	4680	01	N KOHALA	1	20 14	155 48	537	7A	7A			K. LYMAN BONO
KOIAWE LOWER 196	A 4685	01	HAMAKUA	1	20 05	155 38	720		WI			HONOKAA SUGAR CO
KONA (KAILUA) 68.3	A 4764	04	N KONA	4	19 39	156 00	30	8A	8A			CHEVRON USA
KONA VILLAGE 93.8	4765	04	N KONA	4	19 50	155 59	20		BA			KONA VILLAGE RESORT HTL
KUKAIUA 222	4815	01	HAMAKUA	1	20 02	155 21	840		6A			LAUPAHOEHO SUGAR CO
KUKUIHAELE HIC 199	4928	01	HAMAKUA	1	20 07	155 35	980		6A			HONOKAA SUGAR CO
KUKUIHAELE MILL 206	A 4938	01	HAMAKUA	1	20 08	155 34	300		6A			HONOKAA SUGAR CO
KULANI CAMP 79	5011	02	S HILO	2	19 33	155 18	5170	BA	BA			ST DEPT OF SOCIAL SER
KULANI MAUKA 76	A 5018	05	N HILO	5	19 35	155 27	8300		WI			MAUNA LOA OBS.
KULANI SCHOOL SITE 78	A 5021	02	S HILO	2	19 35	155 20	5735		WI			ST DEPT OF SOCIAL SER
LALAMILO FLO OFF 191.1	5260	01	S KOHALA	1	20 01	155 41	2615				C	STATE DEPT OF L&N RES
LANIHAU 68.2	5330	04	N KONA	4	19 40	155 58	1530		7A			KONA EXPERIMENT STATION
LAVA TREE PARK 66.1	5460	02	PUNA	2	19 29	154 54	650				C	STATE DIV OF PARKS
MAKAHALUA 103	5761	02	HAWAII	1	19 59	155 33	3820		6A			PARKER RANCH
MANUKA 2	A 6134	03	KAU	3	19 07	155 50	1760		WI			STATE DIVISION OF PARKS
MAUNA KEA OBS 111.2	6183	02	HAWAII	2	19 49	155 28	3770		7P			MAUNA KEA OBSERVATORY
MAUNA LOA SLOPE OBS	6198	05	HAMAKUA	5	19 32	155 35	1150	M10	M10			MAUNA LOA OBSERVATORY
MIDDLE HOLUALOA 68.1	A 6268	04	N KONA	4	19 37	155 58	500		7A			CAPT COOK CATTLE CO
MIDDLE PEN 147.1	A 6270	01	N KOHALA	1	20 06	155 50	1380		VAR			KAHUA RANCH
MORULA 18	A 6407	03	KAU	3	19 11	155 30	600		WI			PARKER RCH-KAPAPALA DIV
MOUNTAIN VIEW 91	6552	02	PUNA	2	19 33	155 07	1530	6A	6A			PUNA SUGAR CO
NAALEHU 14	A 6588	03	KAU	3	19 04	155 35	800	BA	8A			KAU SUGAR COMPANY
NAPOOPOO 2B	A 6697	04	S KONA	4	19 28	155 55	395		7A			KONA EXPERIMENT STA
OOKALA 223	7131	02	N HILO	2	20 01	155 17	430	7A	7A			LAUPAHOEHO SUGAR CO
OPIHIHALE 2 24.1	7166	04	S KONA	4	19 16	155 53	1270	7A	7A			MRS LORMA TRUMAN
ORCHID LAND EST 91.5	A 7185	02	PUNA	2	19 34	155 00	445		VAR			BOARD OF WATER SUPPLY
PAAUHAU 217	7204	01	HAMAKUA	1	20 05	155 26	415		BA		C	HONOKAA SUGAR COMPANY
PAAUILO 221	7312	01	HAMAKUA	1	20 03	155 22	800		7A			LAUPAHOEHO SUGAR CO
PAHALA 21	A 7421	03	KAU	3	19 12	155 29	870	BA	6A			KAU SUGAR COMPANY, INC
PAHOA 65	7457	02	PUNA	2	19 30	154 57	670		6A			PUNA SUGAR COMPANY
PAKAO 37	A 7643	03	KAU	3	19 22	155 28	5000		MO			PARKER RCH-KAPAPALA DIV
PAPAIOU 144.1	7711	02	S HILO	2	19 47	155 06	260		7A			MAUNA KEA SUGAR CO
PAPAIOU MAUKA 140.1	7721	02	S HILO	2	19 47	155 08	1270		7A			MAUNA KEA SUGAR CO

SEE REFERENCE NOTES FOLLOWING STATION INDEX



# STATION INDEX

HAWAII AND PACIFIC  
DECEMBER 1977

STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE :	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES				OBSERVER
								TEMP.	PRECIP.	EVAP.	SPECIAL (SEE NOTES)	
ISLAND OF HAWAII												
PIIHONUA 89	A 8051	02	S HILO	2	19 44	155 10	1730		MO			STATE DIV OF FORESTRY STATE DIVISION OF PARKS SUPT PUU HEIAU-NHS W.H. GREENWELL RANCH PUU WAAWAA RANCH CO BOARD OF WTR SUPPLY MRS CARDLYN CARLSON PARKER RCH-KAPAPALA DIV U S COAST GUARD SHINICHI KANESHIRO  801SE CASCADES WA CONST
POHAKULOA 107	A 8063	02	HAMAKUA	2	19 45	155 32	6511		WI		C	
PUUKOHOLA HEIAU 98.1	8422	05	HAWAII	5	20 02	155 50	140	8A	8A			
PUU LEHUA 73	A 8460	04	N KONA	4	19 34	155 49	4880		MO			
PUU WAAWAA 94.1	A 8555	05	N KONA	5	19 47	155 51	2520		7A		C	
SADOLE ROAD 1 84	A 8590	02	S HILO	2	19 42	155 12	2340		WM			
SOUTH KONA 2.31	8650	03	HAWAII	3	19 06	155 45	2650	8A	8A			
SOUTH POINT CORRAL 3	A 8675	03	KAU	3	18 57	155 41	500		WI			
UPOLU POINT USCG 159.2	8830	01	N KOHALA	1	20 15	155 53	61	8A	2P			
WAIKAE SCD 88.2	9025	02	S HILO	2	19 40	155 08	1050		7A			
WAIKALOA-BOIS CAS 95.8	9142	04	HAWAII	5	19 56	155 48	900		8A			

SEE REFERENCE NOTES FOLLOWING STATION INDEX

# STATION INDEX

HAWAII AND PACIFIC  
DECEMBER 1977

STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES				OBSERVER
								TEMP.	PRECIP.	EVAP.	SPECIAL (SEE NOTES)	
PACIFIC												
EAST OF 180TH MERIDIAN												
ATU'U	4060	03	TUTUILA		14 16S	170 41W	265		4P			MARIST BROTHERS
CANTON ISLAND	4101	02	PHOENIX IS		2 46N	171 43W	8	9A	9A			ITT/FEDERAL ELEC CORP
FALEASAO VILLAGE	4248	03	TA'U'MAN		14 14S	169 31W	16		8A			SOLOMULI MALU'IA
JOHNSTON IS WSO AP	R 4320	01	LINE ISLANDS		16 44N	169 31W	10	M10	M10	SP	J	NATL WEATHER SERVICE
LEONE	4397	03	TUTUILA		14 21S	170 47W	20	6P	6P			ST THERESA SCHOOL
FRENCH FRIGATE SHOALS	4401	07			23 52N	166 17W	6	8P	8A			U S COAST GUARD
MIDWAY SAND ISLAND	4490	07			28 13N	177 21W	10	M10	M10			U S NAVY
PAGO PAGO WSO AP	R 4690	03	AMER SAMOA		14 20S	170 43W	12	M10	M10		J	NATL WEATHER SERVICE
WESTERN PACIFIC ISL. NORTH OF 12 N												
ANDERSEN AFB GUAM	\$3 4025	03	MARIANNA IS		13 35N	144 55E	624	M10	M10			AIR WEATHER SERVICE
CLARK AFB LUZON	\$3 4100	06	PHILIPPINE I		15 11N	120 33E	475	M10	M10			U S AIR FORCE
GUAM NAS	4226	03	MARIANNA IS		13 29N	144 48E	254	M10	M10			U S NAVY
GUAM WSMO	R 4229	03	MARIANNA IS		13 33N	144 50E	361	10A	10A	6P	J	NATL WEATHER SERVICE
MANGILAO	4468	03	GUAM		13 27N	144 49E	60		7A			GUAM AGRICULTURAL STA
ROTA	4800	03	MARIANNA IS		14 08N	145 09E	47		8A			OIST ADMINISTRATOR
SAIPAN LORAN	4860	03	MARIANNA IS		15 08N	145 42E	9	10A	10A			U S C G LORAN STATION
WAKE ISLAND WSO AP	R 4901	01	WAKE ISLAND		19 17N	166 39E	12	M10	M10		J	NATL WEATHER SERVICE
CAROLINE AND MARSHALL ISLANDS												
ANGUAR	4030	02	CAROLINE IS		6 55N	134 09E	15		8A			USCG LORAN STATION
ENIWETAK	4165	01	MARSHALL IS.		11 21N	162 21E	10	M10	M10			U S COAST GUARD
FALALOP I ULITHI ATOLL	4185	02	CAROLINE IS		10 02N	139 48E	6	M10	M10			RAPHAEL 8 LINGESOH
KAPINGAMARANGI ATOLL	4325	01	PONAPE		1 05N	154 48E	10	M10	M10			ERSIN HAQUET
KOROR WSO	R 4351	02	CAROLINE IS		7 20N	134 29E	94	M10	M10		J	NATL WEATHER SERVICE
KWAJALEIN MISSILE RGN	R 4375	01	MARSHALL IS		8 44N	167 44E	7	12M	12M		J	KMR WEATHER SERVICE
LELE I KOSRAE	4395	02	KOSRAE		5 20N	163 02E	7	M10	M10			JULIAN E ROBERT
MAJURO WSO AP	R 4460	02	MARSHALL IS		7 05N	171 23E	10	M10	M10		J	NATL WEATHER SERVICE
METALANIM	4482	02	PONAPE		6 51N	158 19E	30	6P	6P			REV E. A. SOUCIE
MOKIL ATOLL	4490	02	PONAPE OIST.		6 41N	159 47E	27		SP			ESHAM BEN
NGASANG.8ABELTHUAP	4580	01	PALAU ISLAND		7 38N	134 39E	10		8A			BETHANIA SEMINARY
PONAPE WSO	R 4751	02	CAROLINE IS		6 58N	158 13E	123	M10	M10		J	NATL WEATHER SERVICE
SATAWAN ATOLL	4814	02	CAROLINE IS		5 20N	153 44E	9	M10	M10			ANTER EKO
TRUK. MOEN I. WSO AP	R 4851	02	CAROLINE IS		7 28N	151 51E	5	M10	M10		J	NATL WEATHER SERVICE
WOLEAI ATOLL	4911	01	CAROLINE IS		7 23N	143 55E	7	M10	M10			HASUGULIMAR/HALEYEMAI
YAP WSO AP	R 4951	02	CAROLINE IS		9 29N	138 05E	44	M10	M10		J	NATL WEATHER SERVICE

SEE REFERENCE NOTES FOLLOWING STATION INDEX

# LATE REPORTS MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

HAWAII AND PACIFIC

Station	Temperature										Precipitation												
	Average Maximum	Average Minimum	Average	Departure From Normal	Highest	Date	Lowest	Date	Degree Days	No. of Days				Total	Departure From Normal	Greatest Day	Date	Snow, Sleet			No. of Days		
										Max.	Mn.	Total	Total					Max. Depth on Ground	Date	.10 or More	.50 or More	1.00 or More	
																							80° or Above
HAWAII																							
* * * 1977																							
JUNE																							
B Y U LAIE 903.1	82.9M	70.9M	76.9M		85	23+	66	6		0	0	0		2.97		1.50	6	.0	0		1	1	
* * * 1977																							
AUGUST																							
LANAI CITY 672														.95	- .68	.47	5	.0	0		3	0	0
MOLOKAI AP 524	86.7	71.3	79.0		90	13+	65	17+		2	0	0		.06		.03	12+	.0	0		0	0	0
* * * 1977																							
OCTOBER																							
MOLOKAI AP 524	85.3	71.2	78.3		88	16+	67	14		0	0	0		.46		.15	25	.0	0		3	0	0
PACIFIC																							
* * * 1977																							
APRIL																							
ROTA														1.97				.0	0			0	
* * * 1977																							
JUNE																							
FALALOP I, ULITHI	87.4M	79.2M	83.3M		92	14	76	16+		3	0	0	0			1.30	4	.0	0		20	7	3
MOKIL ATOLL														9.37	5.21	2.00	21	.0	0		15	8	2
WOLEAI ATOLL	89.0	76.3	82.7		91	11	70	23		15	0	0	0	6.36		2.00	29	.0	0		13	3	2
* * * 1977																							
AUGUST																							
FALALOP I, ULITHI	M	M	M							0	0	0				.66	17				1	0	
* * * 1977																							
SEPTEMBER																							
FALALOP I, ULITHI	86.8M	78.1M	82.5M		90	2	72	1		1	0	0	0			3.00	5				12	4	0
KAPINGAMARANGI ATOLL	86.5	73.4	80.0		90	14	70	18+		1	0	0	0	7.46		3.37	15						2
ROTA														13.27		1.60	20	.0	0		4	3	
WOLEAI ATOLL	87.4M	73.7M	80.6M		90	29+	70	29+		4	0	0	0										
* * * 1977																							
OCTOBER																							
KAPINGAMARANGI ATOLL	88.4M	74.0M	81.2M		91	9+	70	30+		13	0	0	0			3.02	17				7	5	

See Reference Notes Following Station Index

# LATE REPORTS DAILY PRECIPITATION

HAWAII AND PACIFIC

Station		Total	Day of Month																															
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
HAWAII																																		
• • •																																		
JANUARY 1977																																		
MOUNT WAIALEALE 1047	R	•	.43	4.09	.20		.28	.08	.04	.35	.35	1.06	.28	.04			•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
• • •																																		
FEBRUARY 1977																																		
MOUNT WAIALEALE 1047	R	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
• • •																																		
MARCH 1977																																		
MOUNT WAIALEALE 1047	R	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
• • •																																		
MAY 1977																																		
HALIIMAILE 423	A	2.39	•	.43	•	.03	.05	.21	•	•	.16	.02	.03						.02			.11	•	1.00	.15		.02	.11	•	.02	.03	•	•	
LANAI AIRPORT 656	A	•						.17	•			.27	.14	.10	-	2.05																	•	
• • •																																		
JUNE 1977																																		
8 Y U LAIE 903.1	A	2.97	.09	.04		.02	•	1.50	.04	.09		•	.03	.04	.02	.04	.05	.05	•	•	.07	.09	.13	.05	.02	•	.25	.20	.14	.03	•	•		
HALIIMAILE 423	A	1.56	.01			.02	•	.14	.04			•	•	.05	.04	.36	.04		•	.73				.03	•	.08	.07	.15	.13	.02	•	•		
HAI'S FARM 85.3	A	3.13	.03	.03	.17	.05	•	•	.03	.03	.02	.06	.09	.06	.02	.44	.06	.03	.15	.28	.10	.08	.21	•	.13	.01	.07	.07	.36	.07	.15	.13	•	
KALAUAPPA 563	A	.37	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
LANAI AIRPORT 656	A	.26	T							.05	.08														.03			.10					•	
MOHIHI UPR CROSS 1083	A	2.14			.41			.08	.08	.06							.40	.07	.07	.07	.07				.07	.67	.07						•	
• • •																																		
JULY 1977																																		
LANAI AIRPORT 656	A	.07															.07																•	
MOUNT WAIALEALE 1047	R	27.30	.04	.12	.43	1.14	.67	1.38	.91	.51	.75	1.97	3.07	3.11	1.73	.71	.04	.47	2.09	1.46	.79	.43	.12	.04		.16	.51	.12	3.43	.47	.28	.35	•	
• • •																																		
AUGUST 1977																																		
KAUHALAPPA HARBOR 658	A	.31							.31					.36																	.02	.10	•	
LANAI CITY 672	A	.95				.47								.03																T	T	•		
MOLOKAI AP 524	A	.06				.03																											•	
WAIKAEKUA 685	A	.11				.11																											•	
• • •																																		
SEPTEMBER 1977																																		
MOUNT WAIALEALE 1047	R	18.70	.75	2.28	.28	.24	.20	1.18	.04	.35	1.10	2.32	.28	.04	.28	1.10	1.30	.55	.39	.12	.04	1.38	.75	1.02	.55	.51	.35	.71	.47		.12		•	
PAKAO 37	A	•																															•	
• • •																																		
OCTOBER 1977																																		
KAPAPALA RANCH 36	A	1.90	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	1.90	•	•	•	•	•	•	•	•	•	•	•	
MOHIHI UPR CROSS 1083	A	3.35	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
MOLOKAI AP 524	A	.46	•	•	•	.05	T	.03						.03			.02				.16					.16	2.06	.30	.25	.16	.10		•	
MOUNT WAIALEALE 1047	R	24.33	•	.28	1.10	.31	.71	1.14	1.02	2.56	.12	1.50	•	•	•	•	.43	1.30	2.20	.35	.28	.75	.04	•	.06	.39	3.95	2.13	1.89	1.81	.12	.08	.39	•
PAKAO 37	A	•																															•	
PACIFIC																																		
• • •																																		
APRIL 1977																																		
ROTA		1.97	.04	•	•	.22	.04	•	•	•	•	.36	.09		.10	.15	•	•	.21	•	•	•	•	•	•	•	•	•	.51	.06	.01	.15	.03	•
• • •																																		
JUNE 1977																																		
FALALOP I, ULITHI	A	9.37	1.25	.15	1.30	1.20	.15	.05	.25	.15	.18	.15	.20	.20	.15	.50	.52	-	-	•	.02	T	.56	.15	.03	.73	.01	.10	.10	.10	.10	•	•	
MOKIL ATOLL	A	6.36	.10	.49	.06	.10	.11	.45	.10	.10	.30	T	.80	.02	.23	.03	.10	.20	•	.60	.40	2.00	.83	.00	.05	.03	.50	.15	.08	1.43	•	•		
MOLEAI ATOLL	A	•																															•	
• • •																																		
AUGUST 1977																																		
FALALOP I, ULITHI	A	-	.01	.09	.10	.11	-	-		.15	.15	-	-	-		.66	.10	.18	-	-	-	-	-	-	-	-	-	-	-	.24	.24	•	•	
• • •																																		
SEPTEMBER 1977																																		
FALALOP I, ULITHI	A	-	.05	.21	.50	.16	.09	.11	-	-	.25	.15	.36	.34	.27	.09	-	-	•	.03	.15	.15	.20	.10	.08	.11	.05	.20	.10	•	•			
KAPINGAMARANGI ATOLL	A	7.46	.08	.02	.15	.58	3.00	.13	.20	.03	.11	•	•	.32	1.68	1.98	3.37	1.96	•	•	.02	.07	.50	.04	.47	.08	.33	.23	.01	.03	.01	.03	•	
ROTA	A	13.27	.09	.15	•	•	.19	.08	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
MOLEAI ATOLL	A	-	1.44	1.25	.05	.04	.15	-	-	.20	.16	.17								.30	1.60	.21		.51			.30	.41	.08			•		
• • •																																		
OCTOBER 1977																																		
KAPINGAMARANGI ATOLL	A	-		.03	2.20	.35	.04	.02	2.38		.01	.50	.87	-	.05	.22	.24	3.02		.28	.07		.28	1.32	.34	.22		.13	2.48	.22	•	•		

See reference notes following Station Index.

## HAWAII AND PACIFIC

See Reference Notes Following Station Index



# CORRECTIONS

HAWAII AND PACIFIC

DATE	TABLE	DIVISION	STATION	CORRECTION
MAY 1977	DAILY PRECIPITATION	ISLAND OF KAUAI	KOLOA LN (MAK) 940.1	TOTAL, 3.58.
JUNE 1977	LATE REPORTS, DAILY PRECIPITATION	ISLAND OF KAUAI	MOUNT WAIALEALE 1047	APRIL TOTAL, 1114.83. AMOUNT ON 1ST, 76.17.
JULY 1977	MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA	WESTERN PACIFIC ISLAND NORTH OF 12 N	GUAM NAS	PRECIPITATION DEPARTURE FROM NORMAL, -3.28.
AUGUST 1977	MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA	WESTERN PACIFIC ISLAND NORTH OF 12 N	SAIPAN LORAN	AVERAGE MAXIMUM TEMPERATURE, 90.7M. AVERAGE MINIMUM TEMPERATURE, 75.5M. AVERAGE TEMPERATURE, 83.1M. HIGHEST TEMPERATURE, 92; DATE, 28+. LOWEST TEMPERATURE, 69; DATE, 8. NUMBER OF DAYS WITH MAXIMUM 90° OR ABOVE, MISSING.
AUGUST 1977	DAILY TEMPERATURES	WESTERN PACIFIC ISLAND NORTH OF 12 N	SAIPAN LORAN	MAXIMUM AND MINIMUM ON 2D, MISSING. AVERAGE MAXIMUM, 90.7. AVERAGE MINIMUM, 75.5.

Additional information regarding the climates of Hawaii and the Pacific Ocean Area may be obtained by writing to the National Climatic Center, Federal Building, Asheville, N.C. 28801, or to any National Weather Service Office near you. Additional precipitation data for Hawaii are contained in "HOURLY PRECIPITATION DATA HAWAII."

**DIMENSIONAL UNITS:** Unless otherwise indicated, dimensional units used in this bulletin are: Temperature in °F., precipitation and evaporation in inches, and wind movement in miles. In "Supplemental Data" table directions entered in figures are tens of degrees. Resultant wind is the vector sum of wind directions and speeds divided by the number of observations.

**OBSERVATION TIME:** Data in the "Monthly Extremes," "Daily Precipitation" table, "Daily Temperature" table, and "Evaporation and Wind" table are for the 24 hours ending at time of observation unless indicated otherwise by reference letters in the Station Index. The Station Index shows observation time in local standard time.

**EVAPORATION** is measured in the standard Weather Service-type pan of 4-foot diameter unless otherwise noted below in the Evaporation and Wind table. Max and Min values in the Evaporation and Wind table are extremes of temperature of water in pan as recorded during 24 hours ending at time of observation. Wind is the total wind movement in miles over the evaporation pan as determined by a continuous anemometer recorder located 6-8 inches above the pan.

**NORMALS** for all stations are climatological standard normals based on the period 1941-1970.

**STATION NAMES:** Hawaii state key numbers are included following station names in the several tables.

**LATE REPORTS AND CORRECTIONS** will be carried only in the June and December issues of this bulletin.

**INTERPOLATED VALUES** for monthly precipitation totals may be found in the annual issue of this publication.

**IN THE DATA TABLES THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING:**

- No record in the "Supplemental Data" table, "Daily Precipitation" table, "Evaporation and Wind" table, and the Station Index.
- No record in the "Monthly Summarized Data" table and the "Daily Temperature" table is indicated by no entry.
- + And also on an earlier date or dates.
- ++ Highest observed one minute windspeed. This station is not equipped with an instrument to measure fastest mile data.
- \* Amount included in following measurement, time distribution unknown.
- ‡ Extreme occurred at station with incomplete data which may have been exceeded.
- A The letter "A" shown following station name in "Monthly Summarized Data" table, "Daily Precipitation" table, and "Station Index," indicates amount carried in the "Total" column is for the period from last measurement of a preceding month through the last measurement of the current month. See "Daily Precipitation" table of this and previous bulletins for dates of measurement. Where gages are read only once monthly, measurements made on the first of a month are credited to the last day of the preceding month.
- B Adjusted to a full month.
- M One or more days of record missing; if average value is entered, less than 10 days record is missing. See "Daily Temperature" table for detailed daily record.
- R Amounts from recording gage.
- T Trace, an amount too small to measure.
- V Includes total for previous month.

**IN THE STATION INDEX THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING:**

- AR Observation made after rain.
- C In Special Column of Station Index indicates Recording Rain Gage Station. Hourly Precipitation values are processed for special purposes, and are published later in the "Hourly Precipitation Data" bulletin. If daily amounts are published in "Monthly Summarized Data" bulletin they are from a separate non-recording gage, except where indicated by reference 'R'. Such amounts may differ from amounts published from the recording gage in the "Hourly Precipitation Data" bulletin.
- J "Supplemental Data" table.
- MO Gage read once monthly; usually on the last day.
- OC Gage readings at periods varying from a few weeks to several months.
- S Storage precipitation station. Precipitation measurements, made at irregular intervals, are published in the annual issue of this publication, beginning with the 1977 data. Prior data are found in the "Storage-Gage Precipitation Data" Bulletin, which was discontinued with the 1976 issue.
- SS Observation time is near sunset.
- VAR Observation time is variable.
- W1 Gage read weekly or irregularly only.
- WM Gage read weekly and last day of month.
- # Thermometers are generally exposed in a shelter located a few feet above sod-covered ground; however, this reference indicates that the thermometers are exposed in a shelter located on the roof of a building.
- 53 Maximum and minimum temperatures are the highest and lowest hourly readings for each day.
- \* DRAINAGE CODE: KAUAI: 1-NORTHERN 2-SOUTHEASTERN 3-SOUTHWESTERN OAHU: 1-WINDWARD KOOLAU 2-HONOLULU 3-SOUTH CENTRAL 4-WESTERN 5-NORTH CENTRAL MOLOKAI: 1-(NO INTRA-ISLAND DIVISIONS) LANAI: 1-(NO INTRA-ISLAND DIVISIONS) MAUI: 1-NORTHEASTERN 2-SOUTHERN 3-CENTRAL 4-WESTERN HAWAII: 1-NORTHERN 2-EASTERN 3-SOUTHERN 4-WESTERN 5-CENTRAL

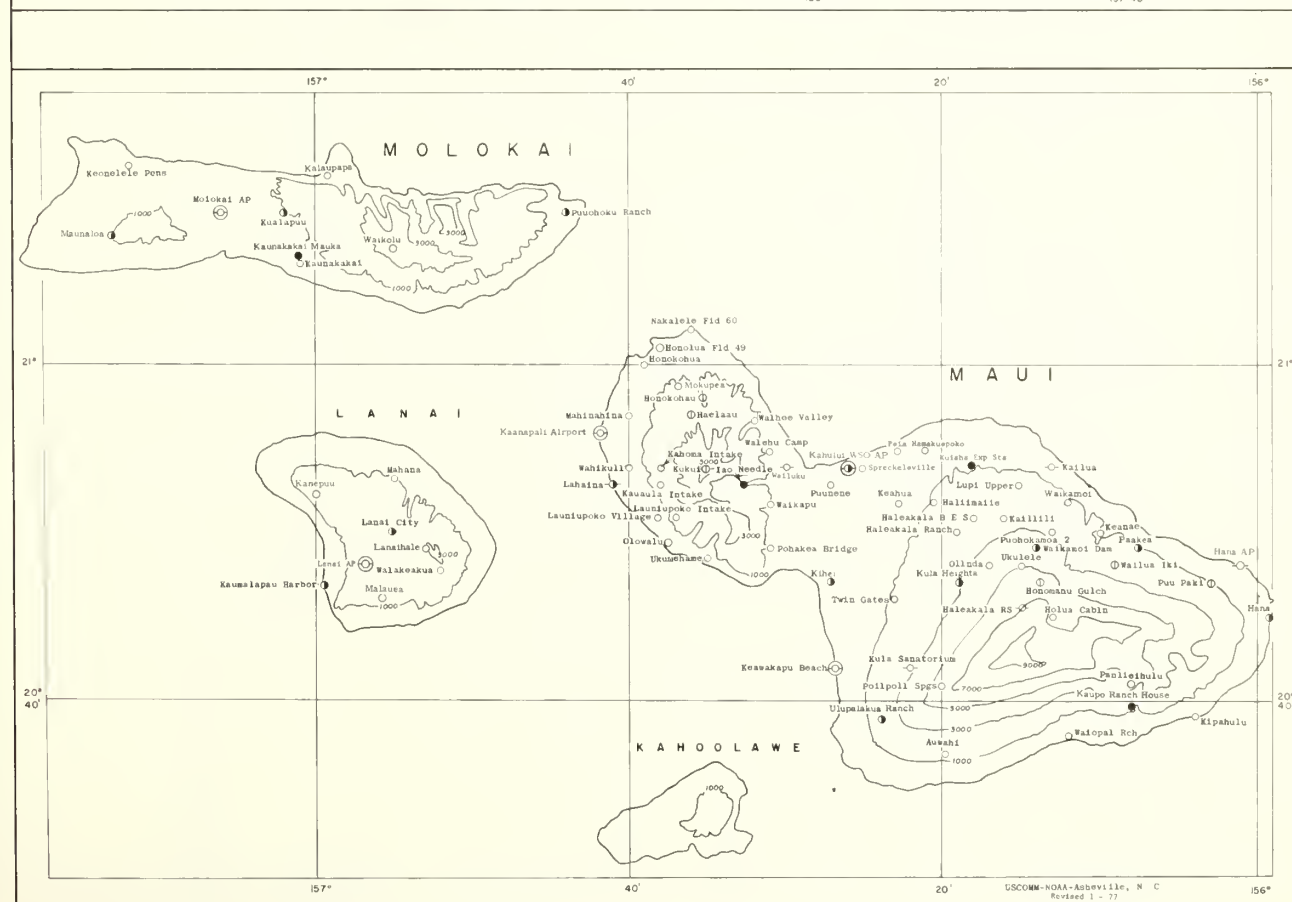
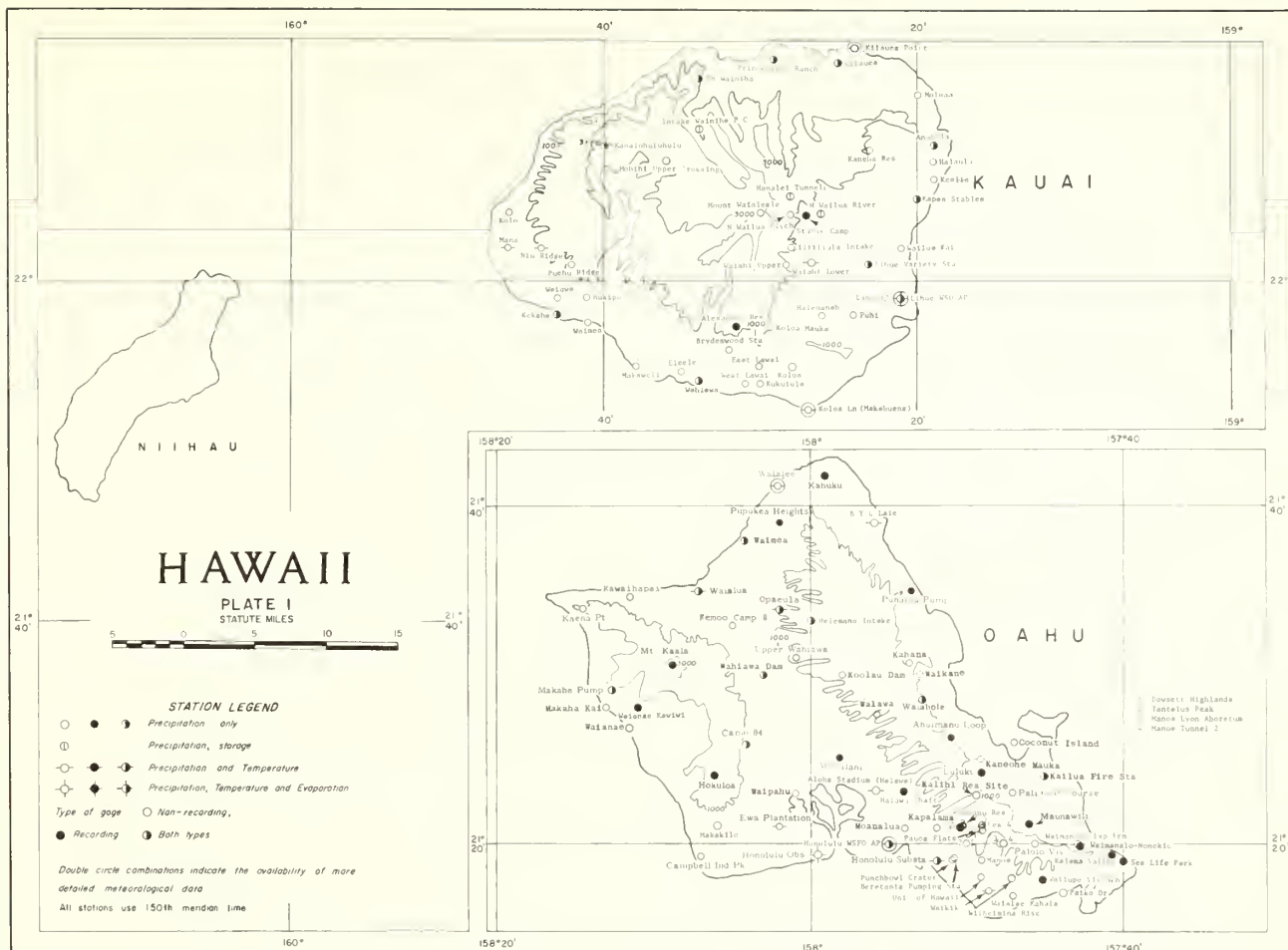
Stations appearing in the tables with no data were either missing or received too late to be included in this issue.

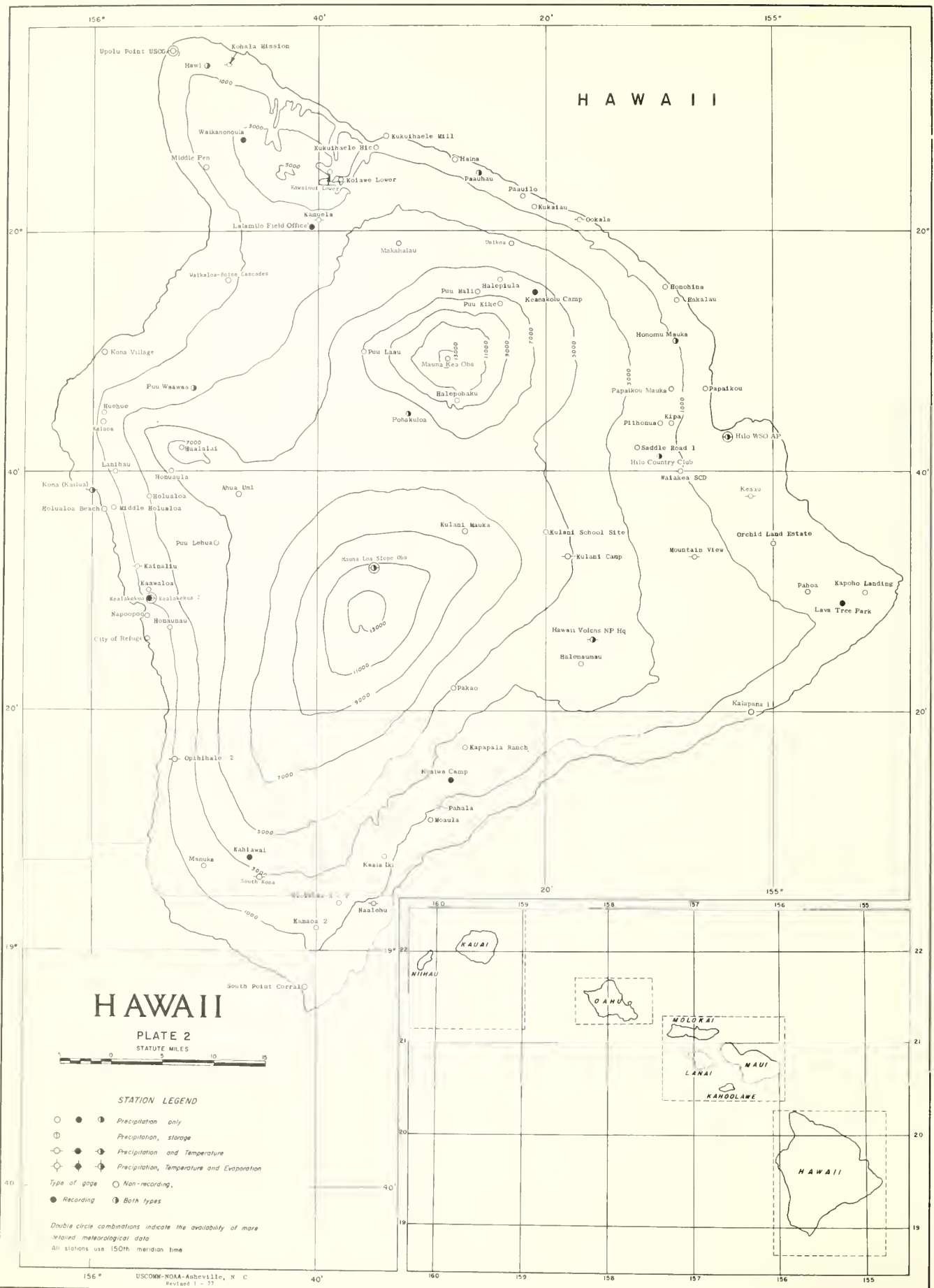
The Pacific includes stations in the Trust Territory of the Pacific Islands, Territory of Guam, American Samoa, and other scattered islands and atolls.

General weather conditions in the U.S. for each month are described in the CLIMATOLOGICAL DATA NATIONAL SUMMARY and STORM DATA.

Information concerning the history of changes in locations, elevations, exposure, etc., of substations through 1957 may be found in the publication "Substation History" for this State, price 40 cents. Similar information for regular National Weather Service Offices may be found in the latest annual issue of Local Climatological Data, price 20 cents. These publications may be obtained from the National Climatic Center at the address shown above.

Subscription Price: \$5.10 a year for each section including annual summary; \$5.55 additional for foreign mailing; 40¢ single copy; 30¢ annual summary. Make checks payable to Department of Commerce, NOAA; send payments and orders to: National Climatic Center, Federal Building, Asheville, N. C. 28801. Attn: Publications.

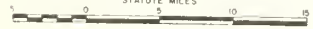




# HAWAII

PLATE 2

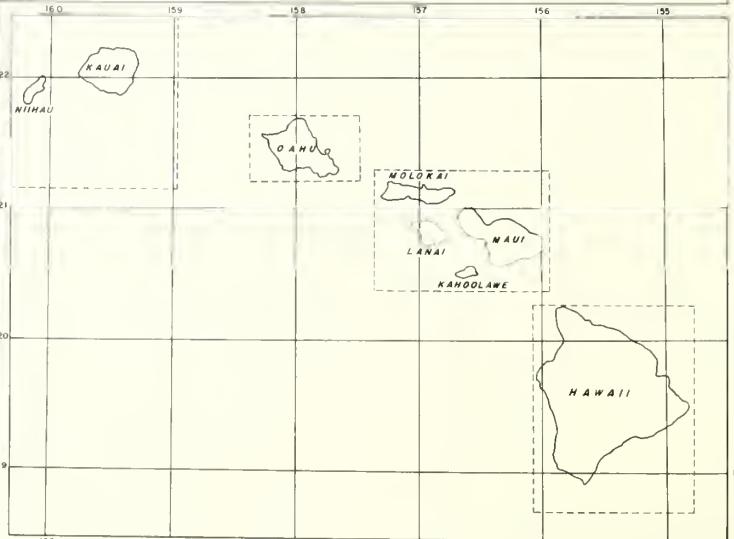
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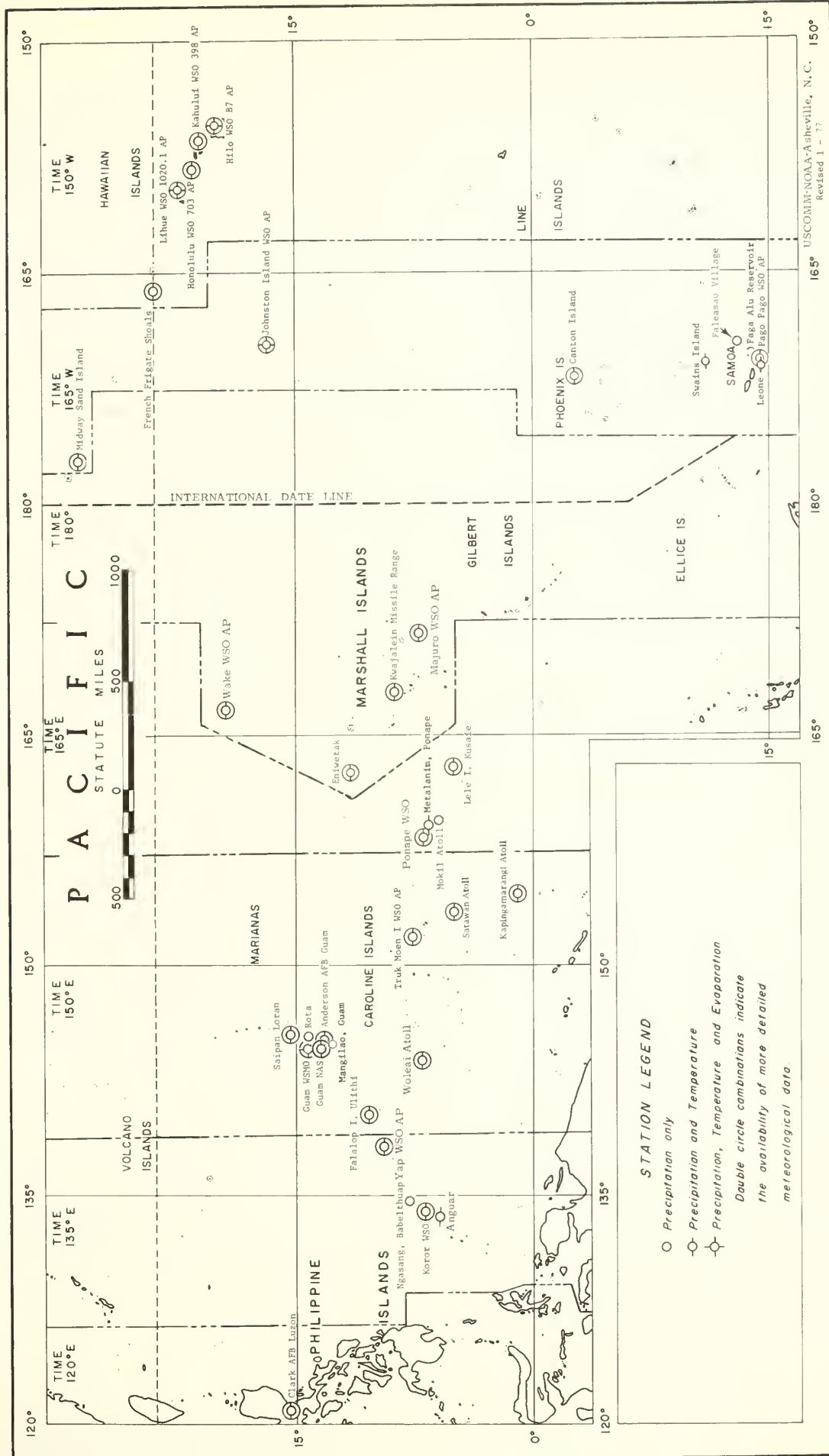


## STATION LEGEND

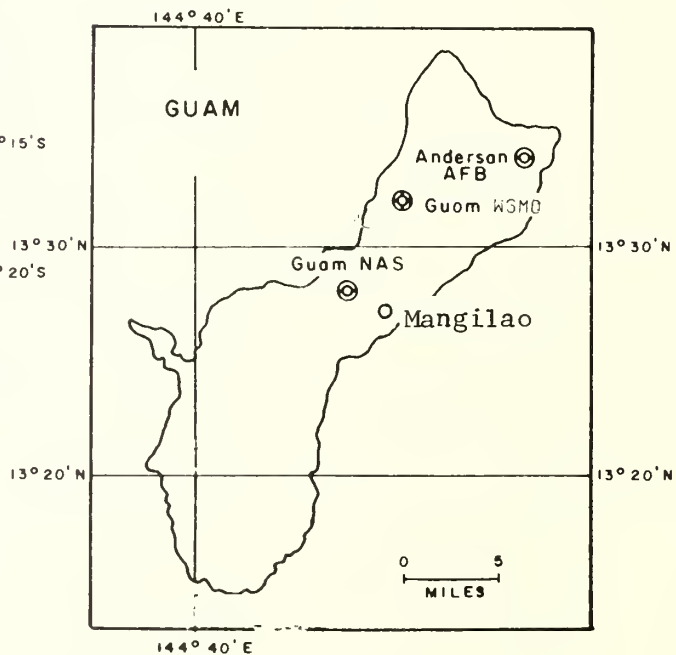
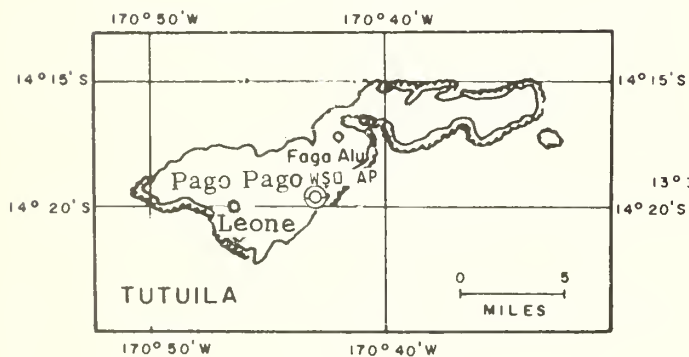
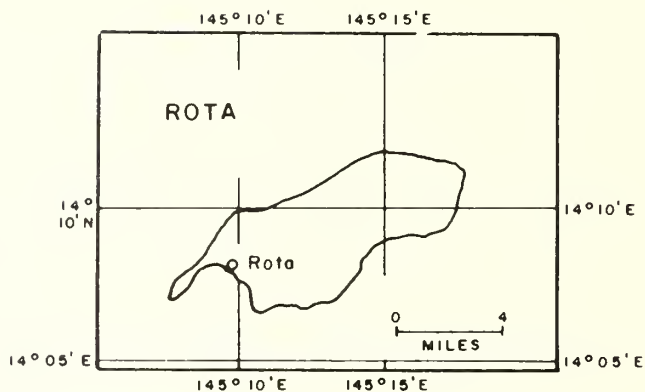
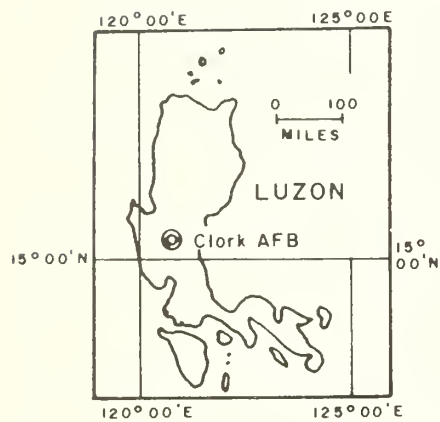
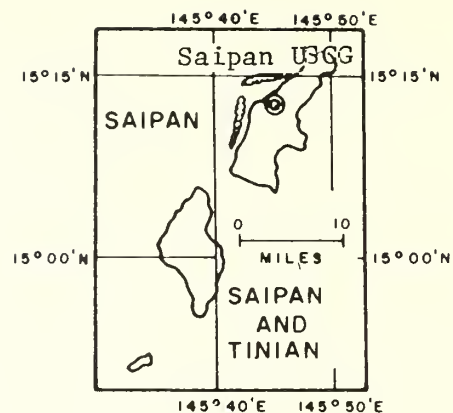
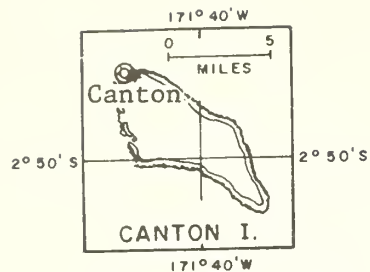
- ● ● Precipitation only
- ⊕ Precipitation, storage
- ⊖ ● ⊕ Precipitation and Temperature
- ⊕ ● ⊖ Precipitation, Temperature and Evaporation
- Type of gage ○ Non-recording, ● Recording ⊕ Both types

Double circle combinations indicate the availability of more detailed meteorological data  
 All stations use 150th meridian time

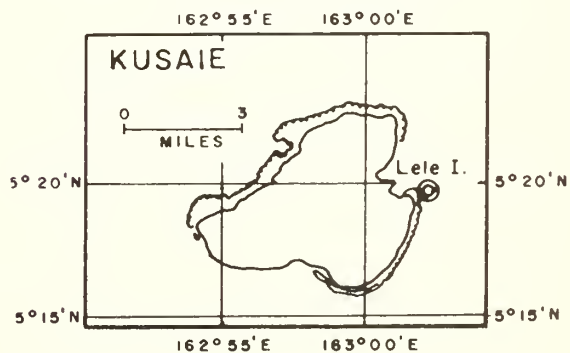
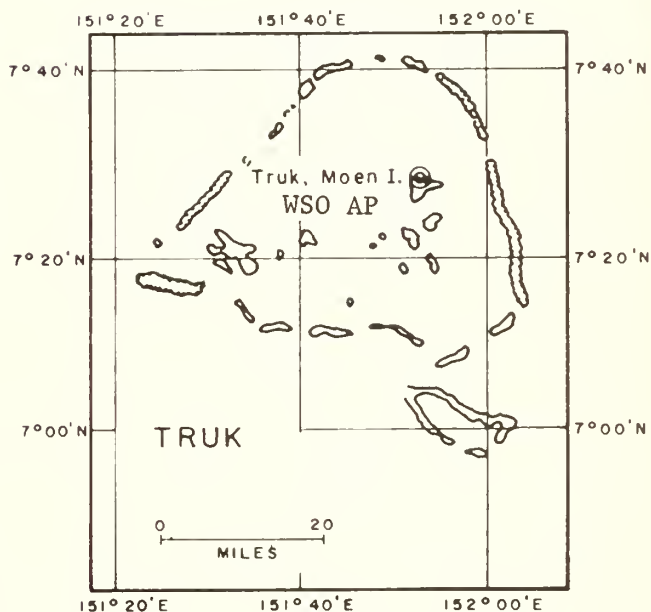
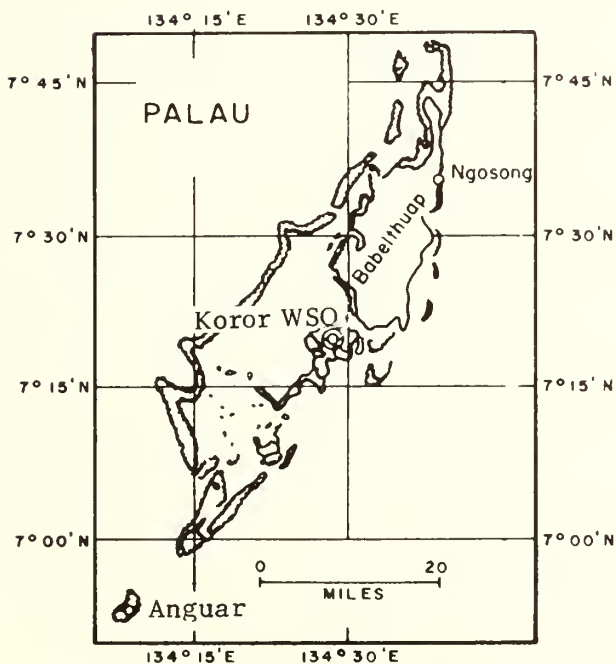
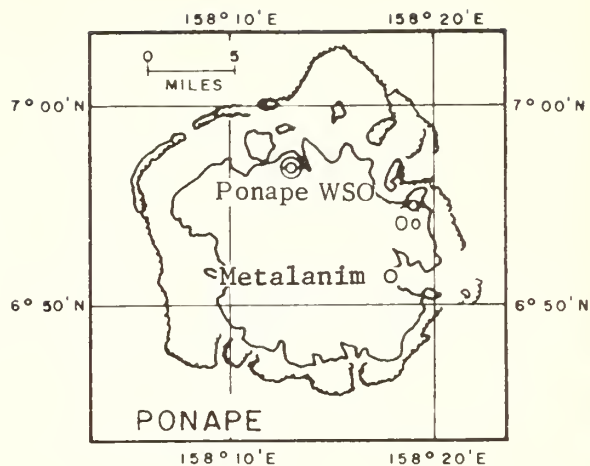
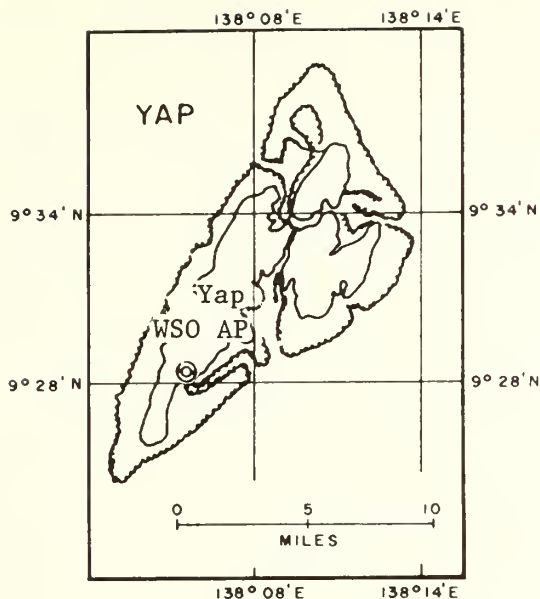




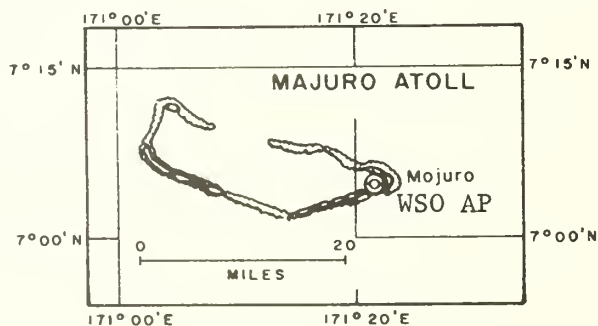
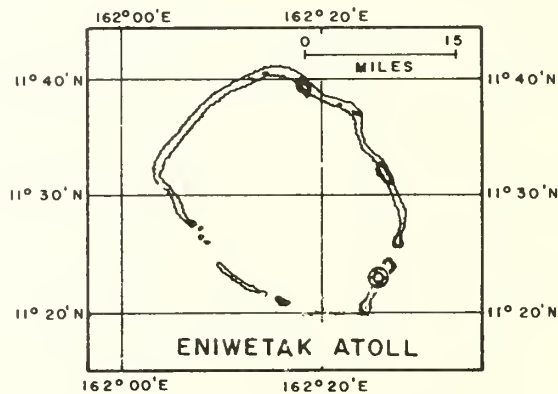
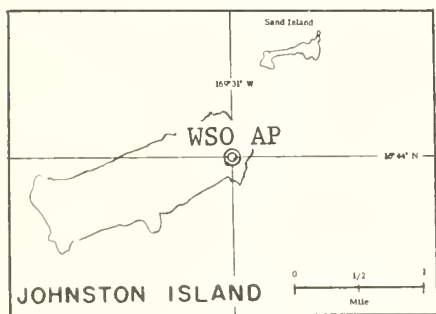
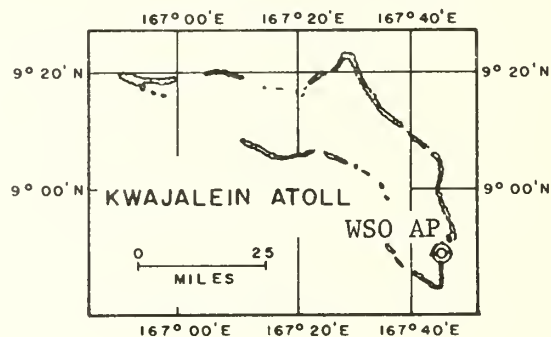
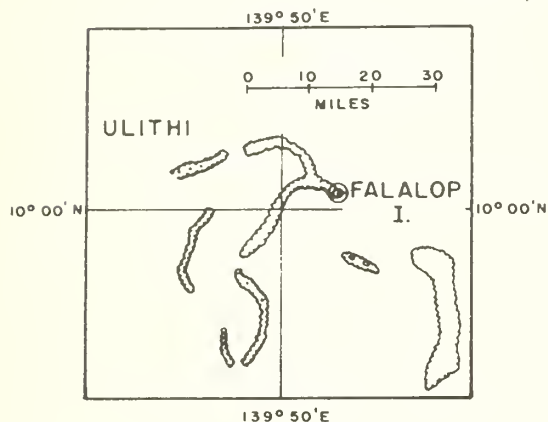
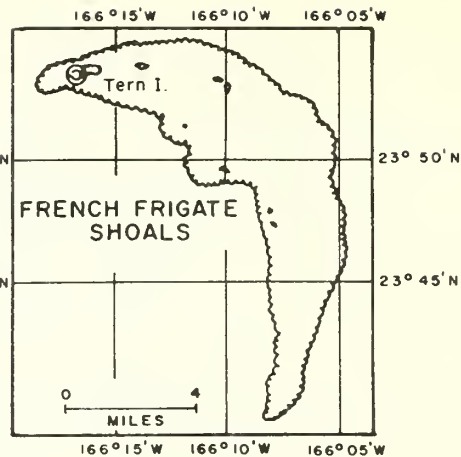
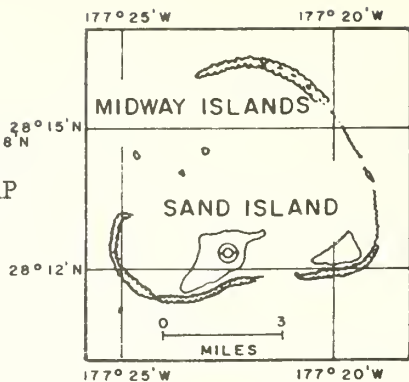
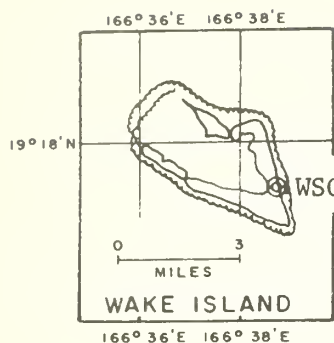




Reef



— Reef





U.S. DEPARTMENT OF COMMERCE  
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ASHEVILLE, N.C. 28801

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**THIRD CLASS**





# CLIMATOLOGICAL DATA

## ANNUAL SUMMARY



HAWAII & PACIFIC

1977

"I CERTIFY THAT THIS IS AN OFFICIAL PUBLICATION OF THE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION AND IS COMPILED FROM INFORMATION RECEIVED AT THE NATIONAL CLIMATIC CENTER, ASHEVILLE, NORTH CAROLINA 28801."

*Daniel B. Mitchell*

DIRECTOR  
NATIONAL CLIMATIC CENTER

Table 1

## AVERAGE TEMPERATURES AND DEPARTURES FROM NORMAL

HAWAII AND PACIFIC  
1977

Station	January		February		March		April		May		June		July		August		September		October		November		December		Annual	
	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure
HAWAII																										
ISLAND OF KAUAI																										
KANALOHULU 1075	56.1		57.3		58.9		58.8		61.3		63.6		63.9		64.7		63.2		62.7		60.3		55.8		60.6	
KILAUEA POINT 1133	74.6M		74.7		74.0		74.0		75.1		77.0		78.8		80.0		79.6		79.0		77.7		74.9M		76.5M	
KOLOA LN (MAK) 900.1	75.2M		75.1		75.0M		75.1M		76.3M		77.5		78.9M		80.6		80.3		79.0M		77.0M		74.0M		77.0M	
LIHUP WSO 1020.1 AP	73.0	1.8	72.7	1.5	74.1	2.4	73.9	0.6	75.3	- 2	76.8	- 1.7	78.6	- 2	79.9	- 0.8	80.0	1.2	79.3	2.0	77.2	2.0	73.5	1.0	76.2	1.1
MANA 1026	73.2	2.5	73.6	2.8	73.6M	2.3	73.1	0.2	74.3M	- 0.5	76.6M	- 0.3	77.4M	- 0.4	78.7M	- 0.5	78.4	1.5	77.6M	2.0	76.0M	1.3	72.8	0.8	75.4M	1.8
NIU RIDGE 1035	69.1M				70.9M	2.7					73.3M	0.6			74.8M	0.7										
WAIAMI LOWER 1054	68.5		66.8		66.3M		66.1		68.2		69.5		70.5		71.1		72.5		72.2		70.3M		67.6M		69.1M	
ISLAND	69.1		69.0		69.2		69.2		70.8		72.7		73.8		74.9		74.7		74.2		72.3		68.9		71.6	
ISLAND OF OAHU																										
ALOMA STADIUM-HALAMA			73.5M		74.2M				73.8M		75.8		77.1M		78.9M		79.4M				76.4M		73.9M		-	
8 Y U LAIE 903.1	72.3		73.2		74.0				75.0M	- 2	76.1	- 1.0	77.9M	- 1	79.2M	- 0.6	80.8M	- 0.9	81.1	2.2	78.6	2.1	75.1	1.4	78.2	1.7
EWA PLANTATION 741			73.0M	1.9	74.3M	2.3			75.0M	- 2	76.1	- 1.0	77.9M	- 1	79.2M	- 0.6	80.8M	- 0.9	81.1	1.7	75.8	1.9	73.8	1.8	75.0M	1.0
MONOLULU WSO 703 AP	73.7	1.4	75.6	3.3	76.2	3.2	76.3	1.5	77.6	0.7	79.5	0.6	80.9	0.8	82.2	1.5	81.6	1.2	81.1	2.2	78.6	2.1	75.1	1.4	78.2	1.7
KANEHEHE MAUKA 781	73.6	2.5	73.4	2.4	72.5M	1.3	72.2	0.4	74.2	0.0	75.4	- 0.5	76.4	- 0.2	77.7	0.7	77.8	1.0	77.6	1.7	75.8	1.9	73.8	1.8	75.0M	1.0
MANOA LYON ARBORETUM	71.4		72.0		69.7		70.4		71.9		72.9		73.2		75.5		75.1		76.1		74.4		71.6		72.9	
OPAEULA 870			72.5		6.1		70.1	3.3	70.3	2.2	71.6M	1.6	71.7	0.0	72.5	1.1	74.6	1.5	74.8	1.5	74.3	2.0	75.3M		72.8	
WAIALEE 896.3	72.3M		72.7M		70.7M		72.6M				76.5		77.1		78.5M		78.0M		77.7M		75.3M		72.8		73.7M	
WAIALUA 847	70.8	0.7	71.4	1.7	71.9	1.8	71.4	0.1	73.0	- 0.3	74.7	- 0.7	74.8	- 1.3	77.2	0.6	77.0	0.7	75.7	1.4	74.7	1.2	71.5M	0.4	73.7M	0.4
WAIKIKI 717.2	74.0		74.8		75.4M		75.0		76.3		77.5M		78.2		80.1		79.4		79.0		76.6		73.4		76.6M	
WAIMANALO EXP FARM	72.5		72.8		73.2		72.8		74.1		76.6		77.8		79.1		78.7		78.6		76.2		73.4		75.5	
ISLAND	72.6		73.2		72.8		72.8		74.3		75.9		76.5		78.3		78.0		77.7		76.2		73.5		75.2	
ISLAND OF MOLOKAI																										
MOLOKAI AP 524	72.7		72.9M		73.7M		72.6M		74.8		76.2		78.0		79.0		78.2		78.3		77.0		73.4		75.6M	
ISLAND	72.7		72.9		73.7		72.6		74.8		76.2		78.0		79.0		78.2		78.3		77.0		73.4		75.6	
ISLAND OF LANAI																										
LANAI AIRPORT 656	67.9		68.8		68.2		69.2		70.2M		71.7		73.1		74.3		73.4		73.4		71.7		68.8		70.9M	
LANAI CITY 672																										
ISLAND																										
ISLAND OF MAUI																										
HALEAKALA RS 338	52.7	1.7	53.4	3.1	48.7M	- 1.5	51.1	- 1.1	54.4	0.8	56.6	- 0.2	58.5	2.1	58.1M	1.1	56.1	0.7	56.0	1.0	54.5	0.9	51.9	0.2	54.3M	0.7
HANA AIRPORT 345	-		73.2M		72.1		73.7M		74.8		75.4		76.6M		77.8		77.0		77.3		75.6		73.0M		-	
KAAHAPALI AP 453.1	-		72.2		72.6		72.5		73.9		74.7		75.9		77.9		78.1		77.6		75.7		71.9M		-	
KAHULUI WSO 398 AP	71.7	0.0	73.5	1.9	74.6	2.4	74.4	0.6	75.8	0.4	76.5	- 0.6	78.0	- 0.2	80.2	1.4	79.7	1.3	78.9	1.6	77.0	1.7	73.9	1.3	76.2	1.0
KAILUA 446			70.4M	2.5	69.0M	0.9			71.4M	0.8	72.2M	0.2			74.0M	0.7	74.3M	1.0								
KEAWAKAPU BEACH 260.2	72.1		73.5		73.5		73.6		75.6M		76.8		77.7		79.0		79.2M		77.7		75.6		72.9		75.6M	
KULA SANATORIUM 267	63.0	1.5	63.6	2.7	64.5	3.3	63.8	1.7	64.1	0.6	65.4	0.7	67.2	1.6	68.2	1.9	68.3	2.2	62.8	- 3.2	66.9	2.5	63.9	1.5	65.1	1.4
LAHAINA 361	73.6	2.1	74.9	3.4	75.5	3.6	74.9M	1.6	76.3M	1.4	77.2	0.7	78.3	0.7	79.9	1.9	78.9	1.2	79.0	2.0			73.8	0.8	-	
WAILUKU 386			70.4M	1.9	72.9M	1.2			74.7M	0.0	75.7M	- 0.9			77.5M	- 0.5	78.2M	0.4								
ISLAND	65.3		69.3		68.7		68.4		70.7		71.7		72.4		74.2		73.8		71.9		69.9		68.1		70.4	
ISLAND OF HAWAII																										
HAWAII VOLCNS NP HO 54	58.0	0.1	58.7	1.1	56.7	- 1.1	59.2	0.2	59.5M	- 0.9	61.7M	0.0			-			62.9M	0.5	60.7	0.1	57.9M	- 0.5	-		
HILO WSO AP 87	73.9	2.7	74.0	3.0	73.3	2.2	74.2	2.0	74.7	1.1	76.2	1.6	77.1	1.8	78.1	2.2	77.5	1.9	76.9	1.9	75.2	1.7	73.7	2.1	75.4	2.0
KAINALIU 73.2	65.9		67.8		66.8		67.7		68.2		69.4M		70.3		71.7		72.0		73.0		71.4		69.4		69.4	
KAMUFLA 192.2					62.1M				63.8M		65.4M		68.1		69.3M		68.6M		69.0M							
KAPOHONO BEACH 93.11											77.4M		78.1		79.3M		79.0M		78.7M		76.9		74.9M			
KEAAU 92	71.3		71.0		70.2		71.3		71.5		73.1		74.1		75.4		75.0		74.6		73.2M					
KEALAKEKUA 2 28.7	67.9M		69.4M		68.6M		69.0M		69.1M		69.8M		71.7M		72.4M		-		-		73.2M					
KOHALA MISSION 175.1	69.9	0.2	70.8	1.4	69.7	0.2	70.3	0.1	71.8	- 0.1	73.2	- 0.2	73.8	- 0.2	74.6	0.0	75.2	0.5	75.0	0.9	72.9	0.7	70.9	0.7	72.3	0.3
KONA (KAILUA) 68.3			75.1M								77.0M				79.1M		79.9M									
KULANI CAMP 79	53.0		53.9M		52.3M		54.9		54.5M		56.1M		57.6M		58.3		58.2M		58.2		57.0M		53.6M		55.6M	
MAUNA LOA SLOPE DBS	44.4		43.5M		40.8		41.9		45.0M		46.7		48.1		47.8		47.1		45.8		44.9		43.4		45.0M	
MOUNTAIN VIEW 91	66.7	1.1	66.8	1.6	65.1	0.0	66.5	0.3	67.6	0.2	69.1	0.5	70.4	1.1	71.2	1.2	70.7	0.9	70.1	0.8	68.9M	1.0			69.2M	
NAALEHU 14			71.2M		70.1M						71.8M				74.3M		74.7						69.2M			
ODKALA 223	70.8	0.3	70.8	1.0	69.6	0.5	70.2	0.9	71.6	- 1.0	73.3	- 0.8	74.0	- 0.7	75.9	- 1.3	74.7	- 0.7	74.6	- 1.1	73.2	0.3	71.1M	0.2	72.3M	0.4

See Reference Notes Following Station Index

# AVERAGE TEMPERATURES AND DEPARTURES FROM NORMAL

HAWAII AND PACIFIC  
1977

Table 1

Station	January		February		March		April		May		June		July		August		September		October		November		December		Annual	
	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure
PACIFIC																										
* * *																										
EAST OF 180TH																										
MERIDIAN																										
CANTON ISLAND	-		84.7M		84.3M		84.5M		85.1M		84.1M		84.9M		85.0M		85.5M		85.8M		85.8M		84.2M		-	
JOHNSTON IS WSO AP	77.1	.3	77.8	1.3	76.8	.2	76.6	- 1.0	79.0	.1	79.3	- .9	80.4	- .4	81.6	.4	81.3	.4	81.7	1.1	79.5	.2	78.1	.5	79.1	.2
LEONF					86.1M		85.1		83.2		82.3M		80.7M		80.7M		82.2M		83.0		83.9		85.3M		-	
FRENCH FRIGATE SHOALS	73.0	1.6	71.7	.9	71.3	.2	72.2	- .3	73.7	- .9	78.0	.6	79.3	- .8	81.0	- 2.1	80.2	.7	79.4	1.3	76.2	.3	74.5	1.2	75.9	.7
MIDWAY SAND ISLAND	63.3	- 2.4	63.7	- 1.8	64.6	- 1.8	67.6	.0	72.1	.7	77.5	1.8	77.2	- .6	78.1	- .6	77.3	- 1.4	76.0	.4	69.9	- 2.0	66.0	- 2.5	71.1	.9
PAGO PAGO WSO AP	81.9	1.6	82.3	1.8	81.4	1.0	80.9	.3	79.4	- 1.1	80.5	1.4	79.1	.8	79.1	.9	78.5	- .5	80.0	.6	80.8	.9	82.1	2.1	80.5	.9
* * *																										
WESTERN PACIFIC ISL,																										
NORTH OF 12 N																										
ANDERSEN AFB GUAM	80.3	2.1	79.9	1.7	77.9	- .6	78.0	- 1.5	79.0	- 1.3	80.6	- .2	80.5	- .1	81.2	1.1	79.7	- .1	80.2	.2	80.2	- .1	79.7	.4	79.8	.2
CLARK AFB LUZON	79.7	1.9	78.8	.0	81.1	.0	84.6	.8	83.9	- .3	83.3	1.4	80.0	- .6	81.0	1.2	79.7	- .1	82.3	1.9	79.8	.4	78.5	.0	81.1	.6
GUAM NAS	80.0	.6	79.7	.3	80.4	.4	81.1	.3	82.1	.8	82.9	1.1	83.2	1.8	84.0	2.8	82.2	1.2	81.5	.7	-	-	-	-	-	-
GUAM WSO	76.4	- .9	77.0	- .3	77.7	.0	78.3	- .7	78.9	- .5	80.1	.3	80.0	- .6	80.0	.9	79.0	- .1	78.9	.0	79.2	.0	78.6	.1	78.7	.0
SAIPAN LORAN	-		-		-		-		-		-		-		83.1M	- 2.3	-		-							
WAKE ISLAND WSO AP	76.3	- .7	76.9	- .1	76.6	- 1.1	77.6	- .7	80.4	.6	82.3	.8	82.8	.8	82.0	- .6	82.8	.2	81.0	- .6	80.0	.4	77.7	- .9	79.7	.2
* * *																										
CAROLINE AND																										
MARSHALL ISLANDS																										
ENIWETAK	80.7	- .4	81.0	.0	81.2	- .2	81.9	- .3	83.2	.7	84.0	1.2	83.2	.5	-	-	-	-	-	-	-	-	-	-	-	-
FALALOP I ULITHI ATOLL	80.7M		82.4M		83.8M		84.2		83.5M		83.3M		80.4M		80.0		82.5M		83.1		-		-	-	-	-
KAPINGMARANGI ATOLL	82.0		80.8M		81.5		80.9M		81.5M		81.0		81.5M		80.0		80.0		81.2M		-		-	-	-	-
KOROR WSO	81.5	.3	81.2	.5	81.8	.7	82.5	.6	83.0	1.0	82.5	.9	81.1	.0	81.2	.0	82.2	.6	82.7	.8	83.0	1.1	82.5	1.2	82.1	.6
KWAJALEIN MISSILE RGN	81.2	.0	82.3	.9	82.1	.4	81.9	.1	81.7	- 1.1	82.1	.2	81.8	- .3	82.9	.4	83.3	.8	82.4	.0	82.7	1.0	82.4	.8	82.2	.3
LELE I KOSRAE	83.2M	1.7	82.6	1.3	81.4M	.2	81.2	.3	80.2M	- 1.0	-		80.9	- .1	81.2	- .3	82.7	1.4	82.7M	1.0	81.9	.5	-	-	-	-
MAJURO WSO AP	80.3	- .5	81.3	.1	81.5	.3	80.5	- .6	80.1	- 1.2	81.2	.2	80.4	- .1	81.2	- .3	82.4	1.0	81.1	- .2	81.2	.0	81.1	.0	81.1	.1
METALANIH	83.0M		82.9		81.9		81.4M		81.2		80.2		80.4		83.4		80.3		80.4M		80.3		80.5		81.3M	
PONAPE WSO	81.0	.4	82.6	1.9	81.9	1.1	82.0	1.3	81.3	.6	81.5	1.0	81.2	1.2	81.6	1.5	81.5	.9	81.0	.8	81.0	.7	81.7	1.1	81.5	1.0
TRUK, MOEN I, WSO AP	81.3	.3	81.6	.5	81.4	.1	82.1	.8	82.0	.7	82.5	1.2	81.7	1.0	81.9	1.0	81.7	.7	82.1	1.0	81.2	- .1	82.2	.9	81.8	.7
WOLEAI ATOLL	80.0		-		80.1M		81.2		82.2		82.7		80.6M		81.4		80.6M		-		-		-	-	-	-
YAP WSO AP	80.0	- .4	80.5	.0	81.4	.4	82.3	.6	81.2	- .6	81.1	- .6	80.1	- 1.1	80.7	- .3	80.3	- 1.0	81.3	- .1	81.2	- .3	80.8	- .2	80.9	- .3

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STATION		JANUARY		FEBRUARY		MARCH		APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER		OCTOBER		NOVEMBER		DECEMBER		ANNUAL	
		PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE
HAWAII																											
ISLAND OF KAUAI																											
ANAHOLA 1114	A	3.21	1.81	3.05	4.59	8.38	2.10	1.65	1.63	1.07	1.45	1.62	4.58	35.14													
BRYCESWOOD STA 985	A	4.04	1.05	10.11	2.39	8.63	4.58	3.04	1.84	1.37	2.32	4.78	56.44														
EAST LAMAI 934	A	3.54	3.52	7.23	2.64	9.09	3.29	4.01	2.87	2.11	3.15	4.00	9.03	54.48													
ELEELE 927	A	2.88	4.0	3.74	.99	4.01	.90	.61	.63	.31	.64	2.01	6.55	23.67													
HALAULA 1110	A	3.05	2.52	3.41	5.88	9.83	2.63	1.80	2.20	1.57	2.32	1.79	4.77	41.77													
HALEMANAHO 1006	A	5.12	5.19	8.13	5.33	11.58	4.96	4.28	3.49	2.76	3.56	4.35	8.51	67.26													
HANALEI TUNNEL 1053	A																										
HUKIPO 945	A	2.87- 2.23	.55- 2.45	2.53- .13	1.23- .79	5.43 4.24	.08- .20	.00- .55	.92	.01	.30- .39	.40- 1.42	15.80	21.63- 3.93													
ILILIULUA INTAKE 1050	A	6.58	10.60	20.31	12.46	22.18	10.78	11.85	9.70	7.69	11.30	9.85	145.67														
INTAKE WAINIHA PC 1086	A	3.68	18.00	18.03	17.86	9.99	6.62	8.08	6.39	5.84	10.47	9.44	124.14														
KANALOHULU 1075	A	7.22	4.04	8.90	3.26	7.28	2.49	1.02	2.62	.97	1.33	1.56	52.20														
KANEHA RESERVOIR 1092	A	7.03	8.73	6.03	12.97	14.98	9.25	1.40	8.29	2.93	5.70	3.91	91.14														
KAPAA STABLES 1104	A	3.00	3.80	3.62	5.29	10.09	3.36	2.10	2.58	2.36	2.10	2.21	43.99														
KEALIA 1112	A	2.56	2.24	3.10	4.38	8.46	1.56	1.12	2.04	1.20	2.07	1.57	34.75														
KEKAHA 944	A	3.06- 1.57	.58- 1.99	1.63- .74	.74- .82	4.01 2.97	.14- .11	.01- .38	.92	.17	.48- .26	.15- 1.57	17.7- 1.41	18.30- 4.14													
KILAUEA 1134	A	4.03	2.91	3.91	7.30	6.47	3.88	3.30	2.56	2.17	2.77	3.06	5.30	47.66													
KILAUEA POINT 1133	A	3.88	1.58	2.63	4.84	4.47	1.52	1.75	1.94	.86	1.49	1.07	27.82														
KOLU 1033	A	2.35- 2.90	.87- 1.91	4.03 1.26	1.57- .26	4.08 3.05	.51- .03	.08- .43	.12- .74	.22- .69	.13- 1.80	.52- 1.81	20.13- 5.11														
KOLDA 936	A	3.82	4.85	6.29	4.12	7.33	3.46	4.02	3.02	1.61	2.85	3.91	52.51														
KOLDA LN (MAK) 940.1	A	2.57	1.59	4.32	1.47	3.58	2.55	.86	.93	.63	1.14	1.58	25.70														
KOLOA MAUKA 994	A	3.94	3.58	10.61	4.45	12.41	4.63	4.31	3.65	3.44	2.69	6.39	68.96														
KUKUIULA 935	A	2.91	2.33	3.48	5.42	12.13	2.13	1.40	1.49	1.49	1.88	1.49	32.34														
LIHUE VARIETY ST 10621	A	3.71	3.93	7.23	3.71	13.93	6.30	3.67	2.65	3.69	2.53	3.51	65.11														
LIHUE 1020	A	3.86	3.64	3.20	3.15	10.04	4.08	1.79	2.16	1.85	2.28	2.26	44.51														
LIHUE WSO 1020.1 AP	/R	2.92- 3.32	3.19- 1.09	2.38- 2.29	4.11	.86 12.59 10.16	3.21 1.64	1.30- .57	1.33- .88	1.20- .59	1.28- 2.56	1.80- 3.77	4.91- 1.43	40.34- 3.84													
MAKAWILI 965	A	2.46	1.03	2.67	.57	3.01	.55	.08	.24	.17	.41	.74	6.65	21.31													
MANA 1026	A	2.43- 2.51	.76- 1.80	2.62- .24	2.01	.39 3.70 2.65	.20- .29	.33- .29	.87	.10	.24- .78	1.35 1.66	3.34- 2.10	4.70	.54	18.15 5.89											
MOHIMI UPR CROSS 1083	A	5.48	4.22	15.01	4.21	19.70	2.65	.20- .29	.33- .29	.87	.10	.24- .78	1.35 1.66	3.34- 2.10	4.70	.54	18.15 5.89										
MOLDA 1145	A	3.64	1.67	1.83	5.80	7.77	1.30	1.70	1.18	.88	2.60	1.30	62.87														
MOUNT WAIALEALE 1047	R	-	-	-	14.83	44.10	23.35	27.30	24.75	18.70	24.33	23.78	30.85														
NIU RIDGE 1035	A	2.95- 2.88	1.03- 1.97	1.70- 1.46	3.72	12.58	4.65 3.31	1.77 1.08	.30- .60	2.43 1.42	.43- 1.12	.22- 2.12	6.42 1.43	25.64- 4.20													
N WAILUA OITCH 1051	A	6.97	9.99	19.88	16.28	22.54	10.77	10.87	8.77	9.05	8.10	10.19	143.50														
N WAILUA RIVER 1055	A																										
PH WAINIHA 1115	A	4.09- 8.92	11.77- .72	10.90- 4.43	15.85 3.27	6.55- 2.77	6.36 .70	E 5.04- 4.96	E 8.09- .61	1.87- 3.30	4.86- 4.07	4.02- 8.11	5.15 9.16	84.55- 43.08													
PRINCETON RANCH 1117	A	4.78- 4.03	2.15- 4.98	8.07- 2.52	10.66 3.17	6.25 1.66	.62 1.66	E 4.78- 1.59	E 6.10- 2.21	1.83- 2.42	3.00- 3.04	4.05- 4.92	4.62 4.85	61.59- 26.34													
PUEHU RIDGE 1040	A	3.90- 2.75	.98- 2.74	4.38 1.13	3.43 .84	6.30 4.34	.95 .15	.40- .86	3.84 2.17	.28- 1.53	1.20- 2.67	.72- 2.67	7.41 1.74	32.69- 2.83													
PUIHI 1013	A	3.31	1.18	3.06	3.19	6.10	3.01	1.09	1.28	.45	1.27	2.19	31.03														
WAHIAWA 930	A	2.88- 2.92	.89- 2.7	3.67 .13	.85 1.83	4.56 2.79	1.02- .35	1.22- .55	1.01- 1.22	.72- 1.04	1.09- 1.82	2.44- 1.43	7.00 1.53	27.33- 9.41													
WAHIAI LOWER 1054	A	4.61- 6.17	5.49- 3.32	9.86- 10.33	1.01	16.06 7.95	6.26- .77	8.68- .99	6.00- 4.88	6.17- 1.22	8.25- .92	7.40- 4.62	11.26- 1.38	100.17- 16.31													
WAHIAI UPPER 1052	A	4.93- 7.88	7.84- 2.73	15.04 2.08	12.28 .27	19.64 9.15	9.19 .20	10.80- 1.04	9.31- 3.89	7.31- 1.86	9.91- 1.30	7.97- 6.23	11.18- 3.70	125.40- 16.93													
WAHIA 943	A	2.15- 2.53	.41- 1.93	2.03- .27	1.02- .56	3.99 2.95	.20- .11	.00- .44	1.70	.89	.55- .26	.05- 1.66	.95 1.57	4.81	.58	17.50- 4.81											
WAILUA KAI 1065	A	3.63	2.65	4.04	5.43	13.60	4.26	1.82	2.13	2.20	1.85	2.08	4.59	48.28													
WAIHEA 947	A	2.48- 2.10	.57- 2.38	2.11- .11	1.36 1.33	6.14 5.09	.42 .25	1.79	.44	.03	1.74	1.67	5.52 1.13	19.35- 3.84													
WEST LAMAI 931	A	3.69	2.70	4.63	1.46	7.18	3.42	1.79	1.60	.92	1.74	2.27	36.21														
ISLAND																											
ISLAND OF OAHU																											
ALOHA STADIUM-HALAWA	A	.24	.56	2.57	3.84	4.67	1.11	E 1.49	E .18	.16	.30	.73	1.93	E 17.78													
BERETANIA PUMPING STA	A	.85	1.03	3.91	2.47	6.56	1.08	.34	.21	.41	.89	1.31	22.49														
8 Y U LAIE 903.1	A	1.13	1.53	3.18	6.79	3.68	2.97	1.87	1.47	1.47	2.82	2.61	2.20														
CAMPBELL LNO PK 702.5	A	1.35	1.12	1.43	1.41	9.04	1.54	.04	.04	.04	.34	.39	17.19														
CAMP 84 807	A	.78	.75	3.13	2.71	1.79	1.79	.14	.15	.40	.11	.39	19.58														
COCONUT ISLAND 840.1	A	.74	1.23	2.56	6.13	9.07	1.32	-	-	-	.92	2.11	-	-													
444 PLANTATION 741	A	-82- 3.90	1.28	4.92	3.51	14.88	5.90	1.53	5.69- 3.18	3.77	2.70	1.94	4.18														
HELEMANO INTAKE 881	A	.62	5.29	14.50	4.04	8.86	2.05	2.15	1.04	1.45	2.24	52.58															
HONOLULU OBSERV 702.2	A	.56	.07	.85	1.24	5.01	.12	.05	T	.37	.14	11.03															
HONOLULU WSO 703 AP	R	.5																									



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	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	
HALEMAUMAU 52	A	.88	4.71	16.74	5.36	2.29	.54	.71	4.85	.00	2.50	1.57	1.40	41.55													
HALEPOHAKU 111	A	.00	2.02	5.64	3.17	1.11	.63	.90	7.69	1.50	1.81	.94	.02	25.43													
HAPS FARM 85.3																											
HAWAII VOLCNS NP HO 54	A	1.89	7.79	35.79	24.04	14.10	4.00	5.70	2.05	1.54	3.13	5.85	.62	8.96	1.76	2.46	2.12	6.62	.27	3.30	8.17	3.02	9.31	97.02	5.79		
HAWI 168	A	1.91	1.44	7.37		12.88		2.89		2.10		6.79		4.81		.88		3.43		1.98		3.36		49.44			
HILD COUNTRY CLUB 86.6		2.62	14.21	48.11	39.05	10.89		3.64		21.64		26.86		9.34		18.10		9.53		5.53		209.52					
HILO WSO AP 87	R	1.22	9.56	3.34	15.49	1.80	10.90	1.98	10.86	.79	2.46	4.15	6.36	3.18	7.60	3.28	4.19	3.25	10.30	.66	8.78	4.99	2.66	13.10	90.38	43.19	
HOLUALOA 70	A	.15	1.45	5.70		2.00		3.70		3.00		4.70		3.10		3.80		.50		.61		.10		30.41			
HOLUALOA BEACH 68	A	.11	-	2.67		4.11		3.07		3.36		.95		1.26		2.04		.18		.45		.18		-			
HONANUA 27	A	.25	2.25	1.43	.83	7.40	4.14	8.20	4.61	5.07	.50	-		17.31		1.26	3.27	3.79	.22	1.91	.70	1.65	.95	-			
HONOHINA 137		2.05	6.92	5.86	8.17	18.90	1.35	11.69	3.14	7.85	4.48	3.33	3.70	9.84	1.19	14.56	1.54	6.59	1.47	12.79	1.00	6.08	7.38	4.15	13.54	104.33	46.10
HONOHU MAUKA 138		2.81	9.80	14.06	3.62	36.11	16.19	25.41	4.19	13.15	4.43	5.38	5.46	20.93	5.68	22.82	4.30	9.10	2.26	23.11	9.23	13.70	4.46	7.47	15.28	196.08	7.71
HONULULA 71	A	.02	.65	4.60		3.00		3.10		1.05		2.40		2.80		.84		1.95		T		.23		20.64			
HUALALAI 72	A	.00	.10	1.80		2.00		.66		.56		.48		1.03		.90		1.50		T		.68		8.71			
HUEHUE 92.1	A	.10	.98	3.32		5.90		2.63		1.70		.88		.71		.16		2.96		.18		.10		22.62			
KAALA IKI 12	A	.69	4.76	4.86		4.82		5.58		1.99		1.70		7.45		2.17		3.00		3.01		3.68		43.71			
KAHALA 29	A	.27	.45	6.65		4.19		5.47		2.69		3.84		3.08		1.31		2.36		.14		1.08		31.53			
KATINALU 73.2	A	.35	.62	2.26		6.87	1.71	6.06	.17	5.44	1.54	3.54	3.72	5.74	2.34	3.76	4.38	1.23	6.02	1.41	.96	3.73	1.26	2.35	39.38	29.59	
KALAGA 69.22		1.13	1.22	4.96		6.23		7.02		4.37		4.37		5.81		.22		4.94		.29		.74		38.19			
KALAPANA 1 67.8		1.76	5.65	13.41		10.81		6.65		1.91		2.22		4.60		1.40		5.20		3.62		1.21		58.04			
KAMAHA 2 5	A	.77	3.24	8.27		8.40		2.56		.25		2.25		2.87		1.90		2.44		2.32		1.31		36.58			
KAMUELA 192.2	A	.68	3.53	3.49	.51	5.34	1.79	1.07	1.02	1.07	.50	1.59	.72	2.82	.30	.17	.90	2.30	.27	.38	2.40	1.70	3.14	21.17	13.66		
KAPAPALA RANCH 36	A	1.05	4.08	4.29		3.15		1.13		1.00		.00		3.27		2.95		1.90		3.34		.67		26.84			
KAPOHO BEACH 93.11		.90	5.34	15.05		8.45		4.69		2.01		3.55		3.41		2.52		2.89		2.72		2.22		53.75			
KAPOHO LANDING 93.5	A	1.63	4.40	5.28		13.34		6.85		4.97		5.26		4.27		3.41		5.25		5.67		2.22		62.55			
KAWAIWU LOWER 193	A	3.68	6.98	10.37		33.34		8.67		4.04		16.24		21.30		4.78		8.96		3.21		13.70		135.27			
KEAAU 92		1.61	9.25	20.73		13.80		8.00		2.52		8.55		9.09		4.85		12.49		8.10		5.01		104.00			
KEALAKEKUA 2 28.7	A	.44	.47	7.19		3.89		4.65		2.51		4.80		2.00		-		-		-		-		-			
KIOLAKAA A G F 6	A	.93	3.20	7.65		4.30		2.05		4.46		4.46		7.50		2.25		3.10		2.10		2.05		45.09			
KIPA 89.2	A	2.06	13.90	42.36		31.30		14.30		3.89		16.71		24.69		9.42		22.15		10.09		5.38		198.23			
KOHALA MISSION 175.1	A	1.97	1.92	3.25	7.75	.47	12.41	6.40	2.63	1.89	2.58	1.04	7.91	2.43	4.99	.75	.92	1.63	4.11	.33	2.47	2.79	3.12	4.44	52.78	10.52	
KOIAHE LOWER 196	A	3.29	2.94	6.91		28.09		6.47		2.80		11.10		13.74		3.70		5.54		2.19		6.90		93.67			
KONA (KAILUA) 68.3	A	.00	.56	1.63		1.78		1.66		1.16		2.44		1.30		.09		3.35		.58		.05		14.60			
KONA VILLAGE 93.8		.06	.05	1.27		.35		.31		.16		.08		.68		.00		.01		.13		.30		3.40			
KUKAIUA 222	A	1.67	5.66	5.90	5.72	21.36	6.97	23.75	10.67	3.68	4.67	1.22	2.10	9.97	4.08	13.02	4.54	1.45	1.91	6.93	.47	3.06	6.62	7.69	6.33	99.70	7.27
KUKUHALE HIC 199	A	3.67	2.03	4.38	2.67	7.46	2.38	.00	8.17	1.29	4.29	2.01	.95	7.45	2.52	9.17	3.50	1.26	1.47	5.55	.03	2.00	4.50	9.64	.47	53.90	20.00
KUKUHALE MILL 206	A	3.16	2.78	6.91		13.95		1.89		3.71		3.71		5.08		.51		3.20		1.13		5.93		48.67			
KULANI CAMP 79		.50	7.78	30.67		18.55		4.41		1.93		7.71		18.03		2.87		6.79		3.01		1.53		103.78			
KULANI MAUKA 76		.00	3.06	10.57		2.77		.89		.91		2.07		6.97		.91		2.47		1.01		1.75		32.38			
KULANI SCHOOL SITE 78	A	1.25	2.92	33.35		15.51		4.55		1.48		7.11		14.78		1.85		7.05		5.93		2.87		98.65			
LANIHAW 68.2		.43	1.18	5.39		6.22		7.70		3.11		6.77		6.56		2.08		1.25		.75		.68		42.02			
MAKAHALA 103		.12	1.59			9.45		2.17		.25		.62		3.18		.15		.46		.05		.58		16.69			
MAUKA 2	A	.69	1.10	6.00		2.92		1.27		.50		1.90		2.75		1.60		5.11		.32		.30		24.17			
MAUNA KEA 085 111.2		-	-	1.29		1.55		.33		.49		.24		.83		.02		1.83		.34		.30		-			
MAUNA LOA SLOPE 085		.00	.35	3.61		.85		.05		.21		1.83		.79		.79		1.04		.20		.38		-			
MIDDLE HOLUALOA 68.1	A	.11	.78	3.51		2.76		5.54		1.46		3.62		1.78		.32		2.19		.86		.08		23.01			
MIDDLE PEN 147.1	A	.02	.11	.79		2.15		.59		3.52		.69		.82		.51		.00		.00		.00		10.00			
MOAULA 18	A	.32	3.23	2.05		6.64		2.73		.03		.00		3.40		1.05		1.00		2.04		2.84		29.33			
MOUNTAIN VIEW 91	A	1.85	12.34	12.89	3.14	40.38	20.00	24.74	4.88	10.48	6.19	4.49	6.17	13.99	.84	16.55	.26	9.00	1.84	15.82	1.79	7.62	11.06	5.82	14.29	163.63	27.46
NAALEHU 14	A	.80	4.09	5.80		4.24		2.39		.90		1.12		3.99		1.63		1.65		1.19		1.85		22.65			
NAPOOPOO 28	A	.40	.43	3.08		3.42		5.16		1.50		2.75		2.20		1.42		1.55		.40		.55		22.86			
OOKALA 223	A	1.54	5.60	5.63	4.69	23.43	9.37	20.84	7.70	6.66	2.69	1.46	2.97	9.40	2.16	13.17	3.74	2.96	1.63	10.67	2.61	4.68	5.69	6.05	7.74	107.49	5.43
OPIHIHOLE 2 24.1		.25	.69	1.97		2.87		2.48		3.30		3.85		2.85		1.01		1.90		1.56		.67		23.41			
ORCHID LAND EST 91.5	A	2.13	3.34	24.95		10.32		8.95		4.18		8.58		7.52		6.34		15.87		7.94		5.15		105.29			
PAALAHU 217	A	5.16	.35	3.86	3.21	13.56	4.71	14.69	6.90																		

## TOTAL PRECIPITATION AND DEPARTURES FROM NORMAL

HAWAII AND PACIFIC  
1977

TABLE 2

STATION	JANUARY		FEBRUARY		MARCH		APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER		OCTOBER		NOVEMBER		DECEMBER		ANNUAL	
	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE
PACIFIC																										
EAST OF 180TH MERIDIAN																										
ATUU	-				-		-		-		-		-		-		-		17.12		15.66		12.29			
CANTON ISLAND	3.57		3.18		13.71		11.00		3.14		3.11		5.61		5.54		3.32		2.39		1.05		20.56		76.18	
FALEASAD VILLAGE	13.12		10.37		21.94		22.04		19.76		4.91		10.45		10.94		9.53		24.93		26.76		11.38		186.33	
JOHNSTON IS WSO AP	4.75	2.12	3.39	1.56	1.13	1.72	2.58	.05	1.14	1.08	1.90	.13	.72	.37	1.74	.84	5.64	3.59	2.14	1.34	13.12	10.82	1.77	1.62	31.74	3.68
LEONE	9.75		6.07		11.40		7.62		33.33		5.51		5.06		-		4.00		16.83		15.18		10.17		-	
FRENCH FRIGATE SHOALS	3.50	1.37	2.19	.72	4.07	.29	2.06	1.10	1.39	.93	1.18	1.29	.55	1.61	1.04	.70	2.29	.32	4.82	.87	7.96	6.46	2.32	2.53	32.37	4.31
MIDWAY SAND ISLAND	8.67	4.00	1.97	1.75	2.88	.12	.84	1.53	1.38	.84	.23	2.73	3.88	.42	1.10	3.23	6.94	3.08	2.31	1.45	4.87	.92	7.74	3.45	42.81	.22
PAGO PAGO WSO AP	7.29	4.98	6.30	7.86	11.64	.43	6.98	5.28	20.21	9.52	5.19	4.22	2.92	4.02	2.40	5.00	3.12	2.96	10.06	2.04	14.81	4.50	6.86	7.99	97.78	30.76
WESTERN PACIFIC ISL., NORTH OF 12 N																										
ANDERSEN AFB GUAM	3.54	1.33	3.07	.97	4.33	1.63	2.26	1.41	3.30	1.10	7.83	3.19	6.42	2.59	5.00	6.31	15.77	2.21	14.17	.14	10.77	2.81	1.13	4.73	77.59	8.46
CLARK AFB LUZON	.28	.31	T	.51	.15	.70	2.27	.74	4.26	2.20	5.41	5.48	13.81	1.35	12.58	4.84	15.44	1.60	.83	4.64	14.30	10.83	T	1.38	69.33	5.54
GUAM NAS	1.82	2.74	1.95	.77	3.81	1.53	1.25	2.58	3.91	.81	4.35	.56	5.82	3.77	4.12	7.76	13.70	.43	15.47	2.33	-	-	-	-	-	-
GUAM WSO	3.12	2.04	3.01	1.25	4.98	2.04	2.25	1.74	6.88	2.39	5.10	.09	7.25	2.34	4.08	6.07	17.32	3.24	16.67	2.27	12.38	9.87	2.22	3.63	87.31	3.35
MANGILAO	-		2.25		3.74		-		5.34		7.51		8.59		5.51		12.00		16.41		10.84		2.77		-	
ROTA	1.71		2.69		3.73		1.97		-		7.47		8.14		6.90		13.27		8.96		8.10		2.14		-	
SAIPAN LORAN	-		-		-		-		-		-		-		4.32	5.66	-		-		-		-		-	
WAKE ISLAND WSO AP	.43	.65	.87	.34	5.55	3.95	1.63	.59	1.60	.65	1.83	.52	2.40	2.05	2.39	6.04	4.37	1.32	10.33	4.88	2.83	.19	1.36	.37	45.59	8.19
CAROLINE AND MARSHALL ISLANDS																										
ANGUAR	6.27	4.42	7.09	.67	7.63	.79	4.65	2.91	8.98	1.51	11.29	.09	18.32	2.92	9.95	2.98	-		7.39	3.97	10.56	.62	-		-	
ENIWETAK	.75	.35	.65	.85	.71	.85	.91	1.20	.61	3.75	1.31	2.63	6.42	.45	-		-		7.28	5.78	-		-		-	
FALALOP I ULITHI ATOLL	-		-		-		2.14	3.61	-		-		-		4.08		7.46		-		-		-		-	
KAPINGAMARANGI ATOLL	11.43		25.72		12.08		13.20		-		9.89		10.88	2.76	11.15	.63	9.72	4.67	17.59	1.59	11.59	3.53	18.88	7.00	122.03	20.86
KOROR WSO	5.18	5.61	5.30	2.13	3.60	4.19	4.48	4.21	11.36	3.17	11.15	2.60	20.72	4.53	19.20	3.80	12.65	.34	10.63	1.96	7.38	3.29	7.79	5.08	119.44	24.25
KWAJALEIN MISSILE RGN	.48	3.26	.04	2.31	4.71	1.50	5.79	.12	12.36	2.65	7.93	2.00	13.01	3.31	7.58	2.62	8.17	2.70	14.09	2.12	8.76	2.70	7.16	2.07	90.08	11.20
LELE I KOSRAE	-		5.97	14.14	17.93	2.01	17.43	5.79	-		-		10.88	2.76	11.15	.63	9.72	4.67	17.59	1.59	10.08	6.46	-		-	
MAJURO WSO AP	2.39	6.57	.77	6.21	2.60	6.65	10.62	.31	17.21	5.06	8.37	3.80	15.23		8.61		10.27		23.54		17.76		3.37		120.42	
METALANIM	11.19		1.99		7.05		11.31		16.42		13.68		13.84	9.90	7.31	2.37	18.25	14.32	-		-		-		-	
MOKIL ATOLL	-		-		-		10.16	7.66	9.37	5.21	-		-		-		-		-		-		-		-	
NGASANG, BABELTHUAP	5.03		3.49		5.12		4.33		-		-		-		18.72	2.02	10.88	5.88	20.00	3.58	-		12.11		-	
PONAPE WSO	4.45	7.30	1.05	10.39	12.65	2.39	15.93	3.65	26.17	6.74	14.70	.99	16.97	.85	14.20	.76	13.94	.87	16.21	2.82	16.14	1.03	4.95	11.00	162.61	31.11
TRUK, MDEN I, WSO AP	6.44	2.15	1.98	4.42	8.31	.33	11.47	1.70	11.67	4.07	7.07	5.52	9.11	6.30	11.43		-		-		12.45	.46	3.24	10.68	116.09	29.60
WOLEAI ATOLL	4.11		-		6.55		4.53		10.35		6.36		-		-		-		-		-		-		-	
YAP WSO AP	3.94	4.50	2.18	3.23	2.42	3.16	.91	5.07	10.36	.33	7.49	3.41	17.21	2.57	13.99	1.15	18.73	5.64	5.76	6.66	9.47	.56	11.64	1.76	104.10	17.44

See Reference Notes Following Station Index

Table 3

## TEMPERATURE EXTREMES

HAWAII AND PACIFIC  
1977

Station	Highest	Date	Lowest	Date	Station	Highest	Date	Lowest	Date
HAWAII					PACIFIC				
* * *					* * *				
ISLAND OF KAUAI					EAST OF 180TH MERIDIAN				
KANALOHULU 1075	80	6-22	37	1-22	CANTON ISLAND	94	9-19	70	2-4
KILAUEA POINT 1133	94	8-17	64	12-30+	JOHNSTON IS WSO AP	87	10-17+	65	4-3
KOLOA LN (MAK) 940.1	96	9-29	60	12-22+	LEONE	95	2-10+	-	-
LIMUE WSO 1020.1 AP	87	9-5+	61	1-28	FRENCH FRIGATE SHOALS	90	8-22+	58	4-21
MANA 1026	93	8-26	52	1-31	MIDWAY SAND ISLAND	87	9-17	50	2-14
NIU RIDGE 1035	90	8-15+	50	12-27	PAGO PAGO WSO AP	92	2-20	64	7-27
WAIAMI LOWER 1054	86	10-4	52	12-27	* * *				
* * *					WESTERN PACIFIC ISL, NORTH OF 12 N				
ISLAND OF OAHU					ANDERSEN AFB GUAM	90	8-25+	70	8-17+
ALOHA STADIUM-HALAWA	92	8-17	59	1-24	CLARK AFB LUZON	97	5-14+	63	3-6
8 Y U LAJE 903.1	95	8-13	60	2-9+	GUAM NAS	91	9-24+	72	2-6+
EWA PLANTATION 741	91	8-19+	57	12-27+	GUAM WSO	90	8-1	56	1-29
HONOLULU WSO 703 AP	92	8-13	59	1-22	SAIPAN LORAN	-	-	-	-
KANEONE MAUKA 781	87	10-12	62	2-17	WAKE ISLAND WSO AP	92	9-27	65	3-16
HANDA LYON ARBRETUM	89	10-12	59	12-22+	* * *				
OPAEULA 870	90	8-17+	57	2-18	CAROLINE AND MARSHALL ISLANDS				
WAIALEE 896.3	86	11-24+	58	3-21+	ENIWETAK	-	-	-	-
WAILUA 847	91	8-12+	55	12-22+	FALALOP I ULITHI ATOLL	92	6-28+	70	10-30+
WAIKIKI 717.2	91	10-15+	57	12-23+	KAPINGAWARANGI ATOLL	91	12-6+	72	9-29+
WAIMANALO EXP FARM	89	8-17	49	5-1	KOROR WSO	92	10-2+	73	6-14+
* * *					KWAJALEIN MISSILE RGN	-	-	61	3-25
ISLAND OF MOLOKAI					LELE I KOSRAE	90	10-4+	70	12-18
MOLOKAI AP 524	90	9-22+	57	3-24	MAJURO WSO AP	96	5-17	70	12-23+
* * *					METALANIM	93	9-26+	66	12-8
ISLAND OF LANAI					PONAPE WSO	91	9-29+	71	9-18
LANAI AIRPORT 656	87	8-26	52	12-25	TRUK, MOEN I, WSO AP	91	8-24+	-	-
LANAI CITY 672	-	-	59	1-20	WOLEAI ATOLL	91	4-22	70	8-5+
* * *					YAP WSO AP				
ISLAND OF MAUI									
HALEAKALA RS 338	75	7-3+	33	6-19					
HANA AIRPORT 355	89	12-17	55	3-31					
KAANAPALI AP 453.1	88	10-16+	56	12-18					
KAHULUI WSO 398 AP	93	10-2+	57	1-24					
KAILUA 446	83	11-28+	57	12-23					
KEAWAKAPU BEACH 260.2	94	8-28+	57	12-26+					
KULA SANATORIUM 267	82	11-24	50	12-24					
LAHAINA 361	93	8-25	58	12-25+					
WAILUKU 386	89	11-28	59	1-25+					
* * *									
ISLAND OF HAWAII									
HAWAII VOLCNS NP HQ 54	77	10-11+	35	12-23+					
HILO WSO AP 87	91	12-6	55	12-23					
KAINALIU 73.2	85	12-4	52	1-24					
KAMUELA 192.2	87	10-3	-	-					
KAPOHO BEACH 93.11	95	8-18	-	-					
KEAAU 92	91	12-5	51	2-1					
KEALAKEKUA 2 28.7	-	-	-	-					
KOHALA MISSION 175.1	88	10-13+	58	2-19+					
KONA (KAILUA) 68.3	89	11-28+	63	12-27+					
KULANI CAMP 79	81	10-25	31	12-23					
MAUNA LOA SLOPE OBS	63	10-3+	25	12-23					
MOUNTAIN VIEW 91	84	10-12	48	1-24+					
NAALEHU 14	86	8-12	54	12-25+					
OOKALA 223	86	6-6	52	2-13+					
OPIHIHALE 2 24.1	89	12-3	50	1-4					
PAHALA 21	91	8-26	56	12-27+					
PUUKOHOLA HEIAU 98.1	-	-	59	12-25+					
SOUTH KONA 2.31	85	8-31+	46	1-24					
UPOLU POINT USCG 159.2	90	10-13+	56	3-1					

See Reference Notes Following Station Index

# TOTAL EVAPORATION AND WIND MOVEMENT

HAWAII AND PACIFIC  
1977

Table 4

Station		Jan.	Feb.	Mar.	Apr.	May	June	July	Aug	Sept.	Oct	Nov	Dec	Annual
HAWAII														
* * *														
ISLAND OF KAUAI														
LIHUE WSD 1020.1 AP	EVAP	5.94	6.788	9.73	10.088	9.548	9.32	11.62	11.50	11.208	9.72	7.198	6.768	109.38
	WIND	3467	40858	7816	5790	5618	5115	6752	5656	5767	5503	4742	40638	64474
	MAX	82.0	84.9	82.2	84.7	85.4	87.2	88.2	90.6	88.9	87.2	85.2	80.0	85.5
	MIN	63.4	63.1	64.3	64.0	66.3	67.6	68.6	69.8	68.8	68.2	66.1	62.3	66.0
* * *														
ISLAND OF OAHU														
HONOLULU OBSERV 702.2	EVAP	7.18	9.068	11.898	10.768	10.23	10.31	11.57	11.68	10.20	10.98	8.98	7.78	120.62
	WIND	1100	9948	1767	1377	1227	1063	1210	1129	1043	1013	952	1096	13971
	MAX	85.4	88.0	87.4	88.9	90.5	90.3	92.9	93.2	91.6	90.8	86.6	83.4	89.1
	MIN	63.7	64.6	64.9	65.7	67.5	68.4	69.1	70.0	69.3	68.3	67.0	62.6	66.8

See Reference Notes Following Station Index

# TOTAL EVAPORATION AND WIND MOVEMENT

HAWAII AND PACIFIC  
1977

Table 4

Station		Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
PACIFIC														
JOHNSTON IS WSO AP	EVAP	8.12	9.27	10.97	9.62	11.28	10.70	11.69	10.60	9.788	10.34	6.848	14.328	123.53
	WIND	4421	5697	7072	6491	5872	6454	6909	5798	4822	5759	5551	6073	70919
	MAX	84.7	84.1	88.3	88.8	91.1	89.2	89.3	90.6	-	-	-	83.7	-
	MIN	66.5	67.1	69.7	70.4	71.5	71.7	72.9	73.0	-	-	-	70.4	-
* * * WESTERN PACIFIC ISL, NORTH OF 12 N														
GUAM WSMO	EVAP	6.648	6.49	8.20	9.03	8.488	7.89	7.83	6.99	5.248	5.538	6.278	6.908	85.49
	WIND	4406	3975	5136	4828	3634	3206	3056	1552	1947	2200	3211	4089	41240
	MAX	83.7	88.3	88.5	90.2	91.4	90.7	92.5	93.3	89.0	89.4	91.2	88.1	89.7
	MIN	67.2	70.5	70.8	71.2	72.1	73.3	73.2	74.6	73.5	73.7	73.0	71.0	72.0

See Reference Notes Following Station Index



# PRECIPITATION MEASURED IN STORAGE GAGES

MAHATI 1977

Station	Obser- vation date	Amount since last obs.	Snow on ground	Station	Obser- vation date	Amount since last obs.	Snow on ground	Station	Obser- vation date	Amount since last obs.	Snow on ground
ISLAND OF KAUAI				ISLAND OF MAUI				ISLAND OF MAUI-Cont'd			
HANAIEI TUNNEL 1053	JAN 31	5.60		HAELAAU 477	JAN 3	2.00		MOKUPEA 475	JAN 4	2.44	
	FEB 28	6.20			JAN 30	2.00			FEB 1	1.33	
	MAR 31	22.60			FEB 26	5.40			MAR 5	9.33	
	APR 30	12.40			APR 3	18.20			APR 10	22.40	
	MAY 31	24.60			APR 30	21.00			MAY 1	16.43	
	JUN 30	10.60			MAY 28	5.40			JUN 10	3.42	
	JUL 31	7.40			JUL 2	3.00			JUL 3	2.23	
	AUG 31	8.00			JUL 31	3.00			AUG 3	5.65	
	SEP 30	8.00			AUG 27	14.80			AUG 31	5.60	
	OCT 31	11.40			OCT 2	3.00			OCT 4	2.12	
TOTAL . . . . .		-		TOTAL . . . . .	NOV 4	10.50		TOTAL . . . . .	NOV 1	4.60	
						-				-	
N. WAILUA RIVER 1055	JAN 31	4.00		HONOLUA FIELO 49	JAN 4	1.49		PUU PAKI 352	MAR 31	36.00	
	FEB 28	5.60			FEB 1	1.45			JUN 30	-	
	MAR 31	14.00			FEB 28	2.61			SEP 30	43.00	
	APR 30	8.40			MAR 31	3.47		TOTAL . . . . .		-	
	MAY 31	18.80			APR 30	16.25					
	JUN 30	7.00			MAY 31	2.46					
	JUL 31	6.60			JUN 30	1.84		WAILUA IKI 348	MAR 31	-	
	AUG 31	14.00			JUL 31	3.51			JUN 30	44.00	
	SEP 30	14.00			AUG 31	2.02			SEP 30	47.00	
	OCT 31	7.60			SEP 30	1.28		TOTAL . . . . .		-	
TOTAL . . . . .		-		TOTAL . . . . .	OCT 31	.97					
						-					
				KUKUI 380	JAN 3	9.60					
					JAN 30	1.00					
					FEB 26	19.20					
					APR 3	22.00					
					APR 30	88.40					
					MAY 28	22.40					
					JUL 2	13.20					
					JUL 31	38.00					
					AUG 27	24.80					
					OCT 2	14.00					
					NOV 4	38.00					
				TOTAL . . . . .		-					

See reference notes following Station Index.

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								Temp.	Precip.	Evap.	Month opened	Month closed	
HAWAII													
ISLAND OF KAUAI													
ALEXANDER RESV. 983		0140	02	KOLOA	221 57	159 32	1610						C
ANAHOLA 1114	A	0145	01	KAWAIIHAU	122 08	159 18	180						2
BRYCESWOOD STA 985	A	0240	02	KOLOA	221 56	159 32	720		48				C
EAST LAWA 934	A	0456	02	KOLOA	221 55	159 30	440		69				2
ELEELE 927	A	0470	02	KOLOA	221 54	159 35	150		77				2
HALAULA 1110	A	0935	01	KAWAIIHAU	122 07	159 19	253		78				2
HALENANAHU 1006	A	1038	02	LIHUE	221 58	159 26	490		77				2
HANAHANAPUNI 1055.2		1140	02	KAUAI	222 03	159 23	600		47		JUL		C
HANAIEI TUNNEL 1053	A	1170	01	KAWAIIHAU	122 05	159 28	1218		1				2
HUKIPO 945		2161	03	WAIIMEA	321 59	159 41	800		38				2
I'IILIULA INTAKE 1050	A	2222	02	LIHUE	222 02	159 28	1050		44				2
INTAKE WAINIHA PC 1086A		2227	01	HANAIEI	122 09	159 34	690		14				2
KANAOHULUHULU 1075		3099	03	WAIIMEA	322 08	159 40	3600	14	24			1 2 3	C
KANEHA RESERVOIR 1092	A	3104	01	KAWAIIHAU	122 08	159 23	830		16				2
KAPAA STABLES 1104	A	3159	01	KAWAIIHAU	122 05	159 20	175		38				2
KEALIA 1112	A	3982	01	KAWAIIHAU	122 06	159 19	9		79				C
KEKAHA 944		4272	03	WAIIMEA	321 58	159 43	9		84				C
KILAUEA 1134	A	4561	01	HANAIEI	122 13	159 23	320		93				C
KILAUEA POINT 1133		4568	01	HANAIEI	122 14	159 24	180	27	28			1 2 3	
KOLO 1033		4735	03	WAIIMEA	322 04	159 46	36		42				2
KOLOA 936	A	4742	02	KOLOA	221 55	159 28	240		92				2
KOLOA LN (HAK) 940.1		4748	01	KAUAI	221 52	159 27	52	21	21			1 2 3	
KOLOA MAUKA 994	A	4750	02	KOLOA	221 57	159 29	640		74				2
KUKUIULA 935	A	4950	02	KOLOA	221 54	159 30	100		76				2
LIHUE VARIETY ST 10621A		5560	02	LIHUE	222 01	159 23	380		16				C
LIHUE 1020		5575	02	LIHUE	221 59	159 22	207		74				2
LIHUE WSD 1020.1 AP	R	5580	02	LIHUE	221 59	159 21	103	28	28	24		1 2 34C	
MAKAWALI 965	A	5864	03	WAIIMEA	321 55	159 38	140		87				2
MANA 1026		6082	03	WAIIMEA	322 02	159 46	20	65	74			1 2 3	
MOHIHI UPR CROSS 1083	A	6433	01	WAIIMEA	322 07	159 36	3500		14				2
MOLOAA 1145	A	6529	01	KAWAIIHAU	122 11	159 20	330		52				2
MOUNT WAIALEALE 1047	R	6565	03	WAIIMEA	222 04	159 30	5148		31				2
NIU RIGGE 1035		6850	03	WAIIMEA	322 02	159 44	1250	33	39			1 2 3	
N WAILUA DITCH 1051	A	6888	02	LIHUE	222 04	159 28	1110		51				2
N WAILUA RIVER 1055	A	6893	02	LIHUE	222 04	159 26	650		1				2
PH WAINIHA 1115		8155	01	HANAIEI	122 12	159 34	101		71				C
PRINCEVILLE RANCH 1117		8165	01	HANAIEI	122 13	159 29	295		69				C
PUEHU RIGGE 1040		8205	03	WAIIMEA	322 01	159 42	1660		39				2
PUIHI 1013	A	8217	02	LIHUE	221 58	159 24	329		43				2
STABLE CAMP 1055.1		8694	02	LIHUE	222 04	159 27	740				JUL		C
WAIHAWA 930	A	8941	02	KOLOA	221 54	159 34	215		74				2
WAIHAI LOWER 1054		8958	02	LIHUE	222 01	159 27	565	24	49			1 2 3	
WAIHAI UPPER 1052		8966	02	LIHUE	222 01	159 28	780		46				2
WAIHAWA 943		9253	03	WAIIMEA	321 59	159 43	10		84				2
WAILUA KAI 1065	A	9467	02	LIHUE	222 02	159 21	50		16				2
WAIIMEA 947		9629	03	WAIIMEA	321 58	159 41	20		66				2
WEST LAWA 931	A	9955	02	KOLOA	221 54	159 31	210		77				2
ISLAND OF OAHU													
AHUIMANU LOOP 839.12		0055	01	KOOLAUPOKO	121 26	157 51	320						C
ALOHA STADIUM-HALAWA		0172	03	OAHU	321 23	157 56	40	3	3			1 2 3	
BERETANIA PUMPING STA		0211	02	HONOLULU	221 19	157 51	20		20				2
8 Y U LAIE 903.1		0240	01	KOOLAUPOKO	121 39	157 56	20	6	6			1 2 3	
CAMPBELL INO PK 702.5		0248	02	OAHU	321 19	158 07	10		7				2
CAMP 84 807	A	0300	03	EWA	321 26	158 04	760		23				C
COCONUT ISLAND 840.1		0350	01	KOOLAUPOKO	121 26	157 47	15		21				2
DOWSETT HIGHLDS 780.8		0438	02	HONOLULU	221 21	157 50	565						C
EWA PLANTATION 741		0507	03	EWA	321 21	158 02	5	72	87			1 2 3	
HALAWA SHAFT 771.2		0964	02	HONOLULU	221 23	157 54	170						C
HAWAII KAI CRSE 724.19		1308	02	OAHU	221 18	157 39	21				SEP		C
HELEMANO INTAKE 881	A	1384	05	WAIALUA	521 33	158 00	1274		61				C
HOKULOA 725.2	A	1540	03	EWA	321 24	158 06	2220						C
HONOLULU RESERV 702.2		1918	03	EWA	321 19	158 00	5		16	16			C
HONOLULU WSD 703 AP	R	1919	02	HONOLULU	221 20	157 55	7	32	32			1 2 3	C
HONOLULU SURSTA 704	R	1924	02	HONOLULU	221 19	157 52	12	73	73		12/76	1 2 3	C
KAA LAKEI 724.6		2269	02	HONOLULU	221 18	157 43	10						C
KAENA POINT 841.3		2410	04	WAIALUA	421 34	158 15	1240		6				2
KAHANA 883	A	2462	01	KOOLAULOA	121 31	157 54	800		61				2
KAHIKU 912	A	2570	01	KOOLAULOA	121 42	157 59	15						C
KAILUA PIPE STA 791.3		2683	01	KOOLAUPOKO	121 24	157 45	10		20				C
KALAMA VALLEY 724.13		2842	02	OAHU	221 18	157 41	73				AUG		C
KALIHI RES SITE 777	R	2960	02	HONOLULU	221 23	157 50	910		51				2
KANEOME MAUKA 781		3113	01	KOOLAUPOKO	121 25	157 49	325	38	50			1 2 3	
KAPALAMA 773	A	3268	02	HONOLULU	221 21	157 52	614		56				2
KAWAIHAPAI 841	A	3734	05	WAIALUA	521 33	158 11	40		49				2
KEMOO CAMP 8 855	A	4318	05	WAIALUA	521 33	158 05	725		54				2

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								Temp.	Precip.	Evap.	Month opened	Month closed	
ISLAND OF OAHU													
KOOLAU OAM 833	A	4766	05 WAHIAWA		521 30	157 58	1160		64				2
LULUKU 781.7		5655	01 KOOLAUPOKO		121 24	157 49	240						C
MAKAHA KAI 796.1	A	5766	04 WAIANAE		421 28	158 13	15		52		MAR		2
MAKAHA PUMP 800.2	A	5782	04 OAHU		421 29	158 12	400		9				2
MAKAKILO 730.1		5789	03 OAHU		321 21	158 06	300		2				2
MANOA 712.1		6122	02 HONOLULU		221 19	157 49	220		60		OCT		2
MANOA LYON ARBORETUM		6128	02 OAHU		221 20	157 48	500	3	3				1 2 3
MANOA TUNNEL 2 716	R	6130	02 HONOLULU		221 20	157 48	650		51				2
MAUNAWILI 787.1		6222	01 KOOLAUPOKO		121 21	157 46	395						C
MOANALUA 770		6395	02 HONOLULU		221 21	157 54	20		78				2
MOMILANI 835.1		6547	03 OAHU		321 25	157 58	325				AUG		C
MOUNT KAALA 844		6553	04 WAIANAE		421 31	158 09	4015						C
NUUANU RES 4 783		6928	02 HONOLULU		221 21	157 49	1048		74				2
NUUANU RESERV 5 775	A	6933	02 HONOLULU		221 21	157 50	410		89				2
OPAULA 870	A	7150	05 WAIALUA		521 34	158 02	1060	73	74				1 2 3 C
PAIKO DR 723.4		7540	02 HONOLULU		221 17	157 44	10		7				2
PALI GOLF COURSE 788.1		7656	01 OAHU		121 23	157 47	480		7				2
PALOLO VALLEY 718	R	7664	02 HONOLULU		221 20	157 46	995		51				2
PAUOA FLATS 784	R	7810	02 HONOLULU		221 21	157 48	1640		51				2
PEARL COUNTRY CL 760.2		7942	03 OAHU		321 23	157 56	120				SEP		C
PUNALUU PUMP 905.2		8314	01 KOOLAULO		121 35	157 54	20						C
PUNCHBOWL CRATER 709	A	8316	02 HONOLULU		221 19	157 51	360		28				2
PUPUKA HEIGHTS 896.4		8342	01 WAIALUA		121 39	158 02	900						C
PUU MANAWAHUA 725.6		8500	03 OAHU		321 23	158 05	2080		1		JAN		2
SEA LIFE PARK 724.14		8665	01 OAHU		121 19	157 40	40					AUG	C
TANTALUS PEAK 780		8730	02 HONOLULU		221 20	157 49	2000				JAN		C
TANTALUS 2 780.5		8738	02 HONOLULU		221 20	157 50	1325		19				2
UNIV OF HAWAII 713	A	8815	02 HONOLULU		221 18	157 49	79		53				2
UPPER WAHIAWA 874.3		8838	05 OAHU		521 31	158 01	1115		7				2
WAHIAWA OAM 863	A	8945	05 WAHIAWA		521 30	158 03	854		65				2
WAIAMOLE 837	A	8964	01 KOOLAUPOKO		121 28	157 53	745		62				C
WAIALAE KAHALA 715		9185	02 HONOLULU		221 17	157 47	40		56				2
WAIALAE 896.3		9190	01 KOOLAULO		121 41	158 02	33	7	7				1 2 3
WAIALUA 847	A	9195	05 WAIALUA		521 35	158 07	32	71	78				1 2 3 C
WAIANAE 798.2	A	9231	04 WAIANAE		421 27	158 11	10		83				2
WAIANAE KAWINI 801.1	A	9234	04 OAHU		421 28	158 11	40				JUL		C
WAIWA 836	A	9261	03 EWA		321 28	157 56	800		62				2
WAIKANE 885	A	9340	01 KOOLAUPOKO		121 30	157 53	760		62				2
WAIKIKI 717.2		9397	02 HONOLULU		221 16	157 49	10	14	14				1 2 3
WAILUPE VLY SCH 723.6		9500	02 HONOLULU		221 18	157 45	180						C
WAIMANALO EXP FARM		9523	01 KOOLAUPOKO		121 20	157 43	60	9	9				1 2 3
WAIMANALO NONOKI 795.2		9534	01 OAHU		121 20	157 43	120						C
WAIMEA 892	A	9593	05 WAIALUA		521 38	158 04	330		62				2
WAIPIHU 750	A	9738	03 EWA		321 23	158 01	58		80				2
WILHELMINA RISE 721	R	9980	02 HONOLULU		221 18	157 47	1100		51				2
ISLAND OF MOLOKAI													
KALAUAPA 563	A	2896	01 MOLOKAI		121 12	156 59	30		14				2
KAUNAKAKAI 536		3541	01 MOLOKAI		121 06	157 01	12		24				2
KAUNAKAKAI MAUKA 536.5		3547	01 MOLOKAI		121 06	157 01	70						C
KEONELELE PENS 551	A	4394	01 MOLOKAI		121 12	157 12	560		15				2
KUALAPUU 534	A	4778	01 MOLOKAI		121 09	157 02	825		79				2
MAUNALO 511	A	6190	01 MOLOKAI		121 08	157 13	1070		50				C
MOLOKAI AP 524		6534	01 MOLOKAI		121 09	157 06	450	27	29				1 2 3
PUU O HOKU RANCH 542.1		8549	01 MOLOKAI		121 09	156 44	700		16				2
WAIKOLU 540	A	9404	01 MOLOKAI		121 08	156 55	3550		14				2
ISLAND OF LANAI													
KANEPUU 690	A	3130	01 LAHAINA		120 52	157 00	1650		24				2
KAUHALAPAU HARBOR 658		3461	01 LAHAINA		120 47	157 00	30		16				2
LANAI AIRPORT 656		5275	01 LAHAINA		120 48	156 57	1300	4	4				1 2 3
LANAI CITY 672	A	5286	01 LAHAINA		120 50	156 55	1620	45	49				1 2 3 C
LANAIHALE 684	A	5301	01 LAHAINA		120 49	156 53	3370		16				2
MAHANA 694	A	5704	01 LAHAINA		120 52	156 55	1430		24				2
MALAEUA 676	A	6012	01 LAHAINA		120 46	156 55	1150		16				2
WAIKAEAKUA 685	A	9021	01 LAHAINA		120 47	156 52	2000		24				2
ISLAND OF MAUI													
AUWAHI 252	A	0175	02 HANA		220 37	156 20	2060		16				2
HAELAAU 477	A	0790	04 LAHAINA		420 57	156 36	2980		1				2
HALEAKALA 8 E S 434	A	0995	01 MAKAWAO		120 51	156 18	2100		57				2
HALEAKALA RANCH 432	A	0999	01 MAKAWAO		120 50	156 19	1850		87				2
HALEAKALA RS 338		1004	02 MAKAWAO		220 46	156 15	7030	33	40				1 2 3
HALIMAILLE 423	A	1075	01 MAKAWAO		120 52	156 21	1070		15				2
HAMAKUPOKO 485		1086	01 MAKAWAO		120 55	156 21	320		95				2
HANA 354	A	1122	01 HANA		120 45	155 59	120		16				2
HANA AIRPORT 355		1125	01 HANA		120 48	156 01	61	28	28				1 2 3 C



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									Temp.	Precip.	Evap.	Month opened	Month closed		
ISLAND OF MAUI															
HOLUA CABIN 259.5	A	1552	02	MAKAWAO	220 45	156 13	6930		15					2	
HONOKOHU 480	A	1882	04	LAHAINA	420 58	156 36	870		14					2	
HONOKOHU 493	A	1887	04	LAHAINA	421 00	156 39	135		51					2	
HONOLUA FIELD 49 494	A	1914	04	LAHAINA	421 01	156 38	125		1					2	
HONOHANU GULCH 341	A	1935	01	MAKAWAO	120 47	156 14	6280		43					2	
IAD NEEDLE 387.2		2208	03	WAILUKU	320 53	156 33	1080							C	
KAAHAPALI AP 453.1		2307	04	LAHAINA	420 56	156 42	8	11	11				1 2 3		
KAHOMA INTAKE 374	A	2552	04	LAHAINA	420 54	156 38	2000		68				2		
KAHULUI WSD 398 AP	R	2572	03	WAILUKU	320 54	156 26	48	23	23				1 2 3	C	
KAILIILI 436	A	2630	01	MAKAWAO	120 51	156 16	2520		54				2		
KAILUA 446		2679	01	MAKAWAO	120 54	156 13	700	66	75				1 2 3		
KAUUA INTAKE 375	A	3433	04	LAHAINA	420 53	156 38	1585		60				2		
KAUPO RANCH HOUSE 259		3576	02	HANA	220 39	156 08	1020							C	
KEAHUA 410		3910	03	MAKAWAO	320 52	156 23	480		60				2		
KEANAE 346	A	4091	01	HANA	120 50	156 10	980		74				2		
KEAWAKAPU BEACH 260.2		4193	02	MAKAWAO	220 42	156 27	20		15				1 2 3	C	
KIHAI 311		4489	03	WAILUKU	320 47	156 27	90		56				2		
KIPAHULU 258		4634	01	HANA	120 39	156 04	260		78				2		
KUIAHA EXP STN		4840	01	MAUI	120 54	156 18	920					APR		C	
KUKUI 380	A	4887	04	LAHAINA	420 54	156 35	5788		1				2		
KULA HEIGHTS 323.2		5003	02	MAKAWAO	220 47	156 19	2520					APR		C	
KULA SANATORIUM 267		5006	02	MAKAWAO	220 42	156 22	3004	41	61				1 2 3	C	
LAHAINA 361		5177	04	LAHAINA	420 53	156 41	45	34	65				1 2 3	C	
LAUNIUPOKO INTAKE 376	A	5404	04	LAHAINA	420 51	156 37	1280		65				2		
LAUNIUPOKO VILLAGE 372A		5408	04	LAHAINA	420 51	156 39	220		52				2		
LUPI UPPER 442	A	5665	01	MAKAWAO	120 53	156 15	1240		81				2		
MAHINAHINA 466	A	5715	04	LAHAINA	420 57	156 40	715		65				2		
MOKUPEA 475	A	6521	04	LAHAINA	420 59	156 37	1290		1				2		
NAKALELE FIELD 60 497	A	6645	04	LAHAINA	421 02	156 36	340		41				2		
OLINDA 332	A	7040	01	MAKAWAO	120 48	156 17	4127		61				2		
OLOWALU 296.1		7059	04	LAHAINA	420 49	156 37	20		28				2		
PAAKEA 350		7194	01	HANA	120 49	156 07	1260		74				2	C	
PAIA 406		7566	01	WAILUKU	120 55	156 23	170		74				2		
PANILEIHIHULU 259.2	A	7674	02	HANA	220 41	156 08	3570		15				2		
PEAHI 488.6		7932	01	MAUI	120 54	156 17	830		2				2	C	
POHAKEA BRIDGE 307.2	A	8060	03	WAILUKU	320 49	156 31	167		25				2		
POLIPOLI SPRINGS 267.2A		8070	02	MAKAWAO	220 41	156 20	6150		15				2		
PUDOHOKAMOA 2 343	A	8336	01	HANA	120 50	156 13	2780		50				2		
PUUNENE 396		8563	03	WAILUKU	320 53	156 27	60		74				2		
PUU PAKI 352	A	8553	01	HANA	120 46	156 03	2160							S	
SPRECKELSVILLE 400.2		8688	03	WAILUKU	320 54	156 25	85		71				2		
TWIN GATES 261.3	A	8742	03	MAKAWAO	320 46	156 23	1310		15				2		
UH AGRI RES CNTR 324.5		8743	02	MAUI	220 46	156 20	3050					MAY		C	
UKULELE 333	A	8744	01	MAKAWAO	120 48	156 15	5230		73				2		
UKUMEHAME 301	A	8750	04	LAHAINA	420 48	156 35	75		49				2		
ULUPALAKUA RANCH 250		8760	02	MAKAWAO	220 39	156 24	1900		24				2	C	
WAHIKULI 364	A	8955	04	LAHAINA	420 54	156 40	580		58				2		
WAIHEHU CAMP 484	A	9275	03	WAILUKU	320 55	156 31	320		69				2		
WAIHEE VALLEY 482	A	9315	04	WAILUKU	420 57	156 32	300		62				2		
WAIKAMOI 449	A	9332	01	HANA	120 52	156 12	1200		72				2		
WAIKAMOI DAM 336	A	9335	01	MAKAWAO	120 49	156 14	4320		61				2	C	
WAIKAPU 390	A	9376	03	WAILUKU	320 51	156 31	370		84				2		
WAILUA IKI 348	A	9460	01	HANA	120 48	156 09	2630							S	
WAILUKU 386	A	9484	03	WAILUKU	320 54	156 30	180	67	77				1 2 3		
WAINPAI RANCH 256	A	9765	02	HANA	220 38	156 12	220		80				2		
ISLAND OF HAWAII															
AHUA UMI 75	A	0040	05	N KONA	519 38	155 47	5220		55				2		
CITY OF REFUGE 27.4		0344	04	S KONA	419 25	155 55	15		8				2		
HAINA 214		0840	01	HAWAKUA	120 06	155 28	461		89				2		
HAKALAU 142		0905	02	S WILD	219 54	155 08	105		87				2		
HALEMAUMAU 52	A	1033	03	KAU	319 24	155 17	3648		46				2		
HALEPIULA 117	A	1060	01	HAWAKUA	219 56	155 24	5770		64				2		
HALEPOHAKU 111	A	1065	02	HAWAKUA	219 46	155 28	9220		39				2		
HA'S FARM 85.3		1270	02	HAWAII	219 40	155 06	580		1				2		
HAWAII VOLCNS NP HQ 54		1303	02	KAU	219 26	155 16	3971	65	66				1 2 3	C	
HAWI 168	A	1339	01	N KOHALA	120 14	155 50	580		79				2	C	
HILD COUNTRY CLUB 86.6		1487	02	HAWAII	219 41	155 10	1600		8				2	C	
HILD WSN AP 87	R	1492	02	S WILD	219 43	155 04	36	32	36				1 2 3	C	
HOLUALOA 70		1557	04	N KONA	419 38	155 55	3220		50				2		
HOLUALOA BEACH 68	A	1562	04	N KONA	419 37	155 59	14		58				2		
HONAUANU 27		1665	04	S KONA	419 27	155 53	1089		40				2		
HONOHINA 137		1701	02	N WILD	219 56	155 09	300		85				2		
HONOHU MAIKA 138		1960	02	S WILD	219 51	155 09	1100		40				2	C	
HONUAULA 71	A	2047	04	N KONA	419 40	155 53	6250		49				2		
HUALALAI 72	A	2131	04	N KONA	419 42	155 52	8190		50				2		
HUEHUE 92.1	A	2156	04	N KONA	419 45	155 59	1960		75				2		

# STATION INDEX

HAWAII AND PACIFIC  
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Station	Index No.	Division No.	DISTRICT	Drainage †	Latitude	Longitude	Elevation	Years of record			Opened or closed during yr.		Refer to tables
								Temp.	Precip.	Evap.	Month opened	Month closed	
ISLAND OF HAWAII													
KAALA IKI 12	A	2249	03 KAU		319 08	155 34	1340		40				2
KAAWALOA 29	A	2327	04 SOUTH KONA		419 30	155 55	1340		37				2
KAHIKAWAI MAUKA 3.8		2512	03 KAU		319 08	155 46	4120						C
KAHUA RCH HQTRS 176.3		2600	01 HAWAII		120 08	155 48	3240				JAN		C
KAINALIU 73.2		2751	04 N KONA		419 32	155 56	1500	43	48				1 2 3
KALAOA 69.22		2887	04 HAWAII		419 44	155 59	2000		3				2
KALAPANA 1 67.8		2894	02 S HILO		219 20	155 02	10		12				2
KAMAQA 2 5	A	3048	03 KAU		319 02	155 40	1375		24				2
KAMUELA 192.2		3077	01 S KOHALA		120 01	155 40	2670	42	88				1 2 3
KAPAPALA RANCH 36	A	3300	03 KAU		319 17	155 27	2140		92				2
KAPOHO BEACH 93.11		3368	02 HAWAII		119 30	154 49	10	2	3				1 2 3
KAPOHO LANDING 93.5	A	3369	02 PUNA		219 30	154 52	290		16				2
KAWAINUI LOWER 193	A	3770	01 HAMAKUA		120 05	155 39	1080		68				2
KEAAU 92		3872	02 PUNA		219 38	155 02	285	16	16				1 2 3
KEATWA CAMP 22.1		3925	03 KAU		319 14	155 29	1700						C
KEALAKEKUA 26.2		3977	04 S KONA		419 30	155 55	1450				AUG		C
KEALAKEKUA 2 28.7		3980	04 S KONA		419 30	155 55	1450	2	2				C
KEANAKOLU CAMP 124.2		4098	02 HAMAKUA		219 55	155 21	5280						C
KIOLAKAA A & F 6	A	4625	03 KAU		319 04	155 38	1925		49				2
KIPA 89.2	A	4632	02 S HILO		219 44	155 09	1490		26				2
KOHALA MISSION 175.1		4680	01 N KOHALA		120 14	155 48	537	71	88				1 2 3
KOTAWE LOWER 196	A	4685	01 HAMAKUA		120 05	155 38	720		68				2
KONA (KAILUA) 68.3	A	4764	04 N KONA		419 39	156 00	30	29	29				1 2 3 C
KONA VILLAGE 93.8		4765	04 N KONA		419 50	155 59	20		11				2
KUKAIAU 222		4815	01 HAMAKUA		120 02	155 21	840		83				2
KUKUIHAELE HIC 199		4928	01 HAMAKUA		120 07	155 35	980		69				2
KUKUIHAELE MILL 206	A	4938	01 HAMAKUM		120 08	155 34	300		86		JAN		2
KULANI CAMP 79		5011	02 S HILO		219 33	155 18	5170	19	30				1 2 3
KULANI MAUKA 76	A	5018	05 N HILO		519 35	155 27	8300		27				2
KULANI SCHOOL SITE 78	A	5021	02 S HILO		219 35	155 20	5735		31				2
LALAMILO FLO OFF 191.1		5260	01 S KOHALA		120 01	155 41	2615						C
LANIHAU 68.2		5330	04 N KONA		419 40	155 58	1530		36				2
LAVA TREE PARK 66.1		5400	02 PUNA		219 29	154 54	650						C
MAKAHALAU 103		5761	02 HAWAII		119 59	155 33	3820		7				2
MANUKA 2	A	6134	03 KAU		319 07	155 50	1760		49				2
MAUNA KEA OBS 111.2		6183	02 HAWAII		219 49	155 28	13770		7				2
MAUNA LOA SLOPE OBS		6198	05 HAMAKUA		519 32	155 35	11150	22	23				1 2 3
MIDDLE HOLUALOA 68.1	A	6268	04 N KONA		419 37	155 58	500		36				2
MIDDLE PEN 147.1	A	6270	01 N KOHALA		120 06	155 50	1380		14				2
MOAULA 18	A	6407	03 KAU		319 11	155 30	600		59				2
MOUNTAIN VIEW 91		6552	02 PUNA		219 33	155 07	1530	41	78				1 2 3
NAALEHU 14	A	6588	03 KAU		319 04	155 35	800	24	89				1 2 3
NAPOOPOO 28	A	6697	04 S KONA		419 25	155 55	395		38				2
OOKALA 223		7131	02 N HILO		220 01	155 17	430	58	88				1 2 3
OPHIHALE 2 24.1		7166	04 S KONA		419 16	155 53	1270	20	21				1 2 3
ORCHIO LANO EST 91.5	A	7185	02 PUNA		219 34	155 00	445		15				2
PAAUHAU 217		7204	01 HAMAKUA		120 05	155 26	415		88				C
PAAUILO 221		7312	01 HAMAKUA		120 03	155 22	800		75				2
PAHALA 21	A	7421	03 KAU		319 12	155 29	870	68	86				1 2 3
PAHOA 65		7457	02 PUNA		219 30	154 57	670		68				2
PAKAO 37	A	7643	03 KAU		319 22	155 28	5000		49				2
PAPAIIKOU 144.1		7711	02 S HILO		219 47	155 06	260		79				2
PAPAIIKOU MAUKA 140.1		7721	02 S HILO		219 47	155 08	1270		52				2
PIIMONUA 89	A	8051	02 S HILO		219 44	155 10	1730		53				2
POHAKULOA 107	A	8063	02 HAMAKUA		219 45	155 32	6511		41				C
PUU KIME 120	A	8393	01 HAMAKUA		119 54	155 24	7750		64		DEC		2
PUUKOHOLA HEIAU 98.1		8422	05 HAWAII		520 02	155 50	140	2	2				1 2 3
PUU LAUA 102.1	A	8452	05 HAMAKUA		519 50	155 36	7440		46		DEC		2
PUU LEHUA 73	A	8460	04 N KONA		419 34	155 49	4880		55				2
PUU MALI 113	A	8515	01 HAMAKUA		119 55	155 26	6960		46		DEC		2
PUU WAAWAA 94.1	A	8555	05 N KONA		519 47	155 51	2520		75				2
SAADLE ROAD 1 84	A	8590	02 S HILO		219 42	155 12	2340		30				C
SOUTH KONA 2.31		8690	03 HAWAII		319 06	155 45	2650	2	2				1 2 3
SOUTH POINT CORRAL 3	A	8675	03 KAU		318 57	155 41	500		30				2
UMIKOA 114		8780	01 HAMAKUA		119 59	155 23	3420		85		DEC		2
UPOLU POINT USCG 159.2		8830	01 N KOHALA		120 15	155 53	61	20	22				1 2 3
WAIKAKEA SCO 88.2		9025	02 S HILO		219 46	155 08	1050		26				2
WAIKALOA-POIS CAS 95.8		9142	04 HAWAII		319 56	155 48	900		3				2
WAIKANONOHULA 178.6		9350	01 N KOHALA		120 08	155 47	3830				JAN		C
PACIFIC													
EAST OF 180TH MERIDIAN													
ATU'U	4060	03	TUTUILA		14 16S	170 41W	265		1		OCT		2
CANTON ISLAND	4101	02	PHOENIX IS		2 46N	171 43W	8	22	22				1 2 3
FAGA ALU RESERVOIR	4135	03	AMER SAMOA		14 18S	170 42W	820		20				2



# STATION INDEX

HAWAII AND PACIFIC  
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Station	Index No.	Division No.	DISTRICT	Drainage †	Latitude	Longitude	Elevation	Years of record			Opened or closed during yr.		Refer to tables
								Temp.	Precip.	Evap.	Month opened	Month closed	
EAST OF 180TH MERIDIAN													
FALEASAO VILLAGE	4248	03	TAU'U'AMAN		14 14S169 31W		16		9				2
JOHNSTON IS WSO AP	4320	01	LINE ISLANDS		16 44N169 31W		10	22	22	16			1 2 3 4
LEONE	4397	03	TUTUILA		14 21S170 47W		20	11	11				1 2 3
FRENCH FRIGATE SHOALS	4401	07			23 52N166 17W		6	22	22				1 2 3
MIDWAY SAMO ISLAND	4490	07			28 13N177 21W		10	22	25				1 2 3
PAGO PAGO WSO AP	4690	03	AMER SAMOA		14 20S176 43W		12	12	12				1 2 3
SWAINS ISLAND	4822	01	AMER SAMOA		11 03S171 03W		6	10	10			DEC	1 2 3
WESTERN PACIFIC ISL, NORTH OF 12 N													
ANDERSEN AFB GUAM	4025	03	MARIANNA IS		13 33N144 55E		624	23	23				1 2 3
CLARK AFB LUZON	4100	06	PHILIPPINE I		15 11N120 33E		475	24	24				1 2 3
#GUAM NAS	4226	03	MARIANNA IS		13 29N144 48E		254	21	21				1 2 3
GUAM WSO	4229	03	MARIANNA IS		13 33N144 50E		361	21	21	18			1 2 3 4
MANGILAO	4468	03	GUAM		13 27N144 49E		60		8				2
ROTA	4800	03	MARIANNA IS		14 08N145 09E		47		17				2
SAIPAN LOPAN	4860	03	MARIANNA IS		15 08N145 42E		9	19	19				1 2 3
WAKE ISLAND WSO AP	4901	01	WAKE ISLAND		19 17N166 39E		12	30	36				1 2 3
CAROLINE AND MARSHALL ISLANDS													
ANGUAR	4030	02	CAROLINE IS		6 55N134 09E		15		22				2
ENIWETAK	4165	01	MARSHALL IS.		11 21N162 21E		10	22	25				1 2 3
FALALOP I ULITHI ATOLL	4185	02	CAROLINE IS.		210 02N139 48E		6	22	22				1 2 3
KAPINGAMARANGI ATOLL	4325	01	PONAPE		1 05N154 48E		10	10	15				1 2 3
KOROR WSO	4351	02	CAROLINE IS		7 20N134 29E		94	28	28				1 2 3
KWAJALEIN MISSILE RGN	4375	01	MARSHALL IS		8 44N167 44E		7	25	25				1 2 3
LELE I KOSRAE	4395	02	KOSRAE		5 20N163 02E		7	19	19				1 2 3
MAJURO WSO AP	4460	02	MARSHALL IS		7 05N171 23E		10	22	23				1 2 3
METALANIM	4482	02	PONAPE		6 51N158 19E		30	11	11				1 2 3
MOKIL ATOLL	4490	02	PONAPE DIST.		6 41N159 47E		27		16				2
NGASANG, BABELTHUAP	4580	01	PALAU ISLAND		7 38N134 39E		10		18				2
PONAPE WSO	4751	02	CAROLINE IS		6 58N158 13E		123	27	27				1 2 3
SATAHAN ATOLL	4814	02	CAROLINE IS		5 20N153 48E		9	9	9				1 2 3
TRUK, MOEN I, WSO AP	4851	02	CAROLINE IS		7 28N151 51E		5	27	28				1 2 3
WOLEAI ATOLL	4911	01	CAROLINE IS		7 23N143 55E		7	10	10				1 2 3
YAP WSO AP	4951	02	CAROLINE IS		9 29N138 05E		44	29	29				1 2 3

Additional information regarding the climates of Hawaii and the Pacific Ocean Area may be obtained by writing to the National Climatic Center, Federal Building, Asheville, N.C. 28801, or to any National Weather Service Office near you. Additional precipitation data for Hawaii are contained in "HOURLY PRECIPITATION DATA HAWAII."

AVERAGES: Division averages in the annual issue include delayed and corrected data and may differ slightly from values published in monthly issues.

DIMENSIONAL UNITS: Unless otherwise indicated, dimensional units used in this bulletin are: Temperature in °F, precipitation and evaporation in inches, and wind movement in miles.

EVAPORATION is measured in the standard Weather Service-type pan of 4-foot diameter unless otherwise noted below in the Evaporation and Wind table. Max and Min values in the Evaporation and Wind table are monthly averages of daily extremes of temperature of water in pan as recorded during 24 hours ending at time of observation. Wind is the total wind movement in miles over the evaporation pan as determined by a continuous anemometer recorder located 6-8 inches above the pan.

NORMALS for all stations are climatological normals based on the period 1941-1970. "DEP" in Table 4 refers to departures from long-term means based on periods varying from 10 to 29 years which are used in place of normals.

STATION NAMES Hawaii state key numbers are included following station names in the several tables.

LATE REPORTS AND CORRECTIONS will be carried in the June and December issues of Climatological Data.

IN THE DATA TABLES THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING:

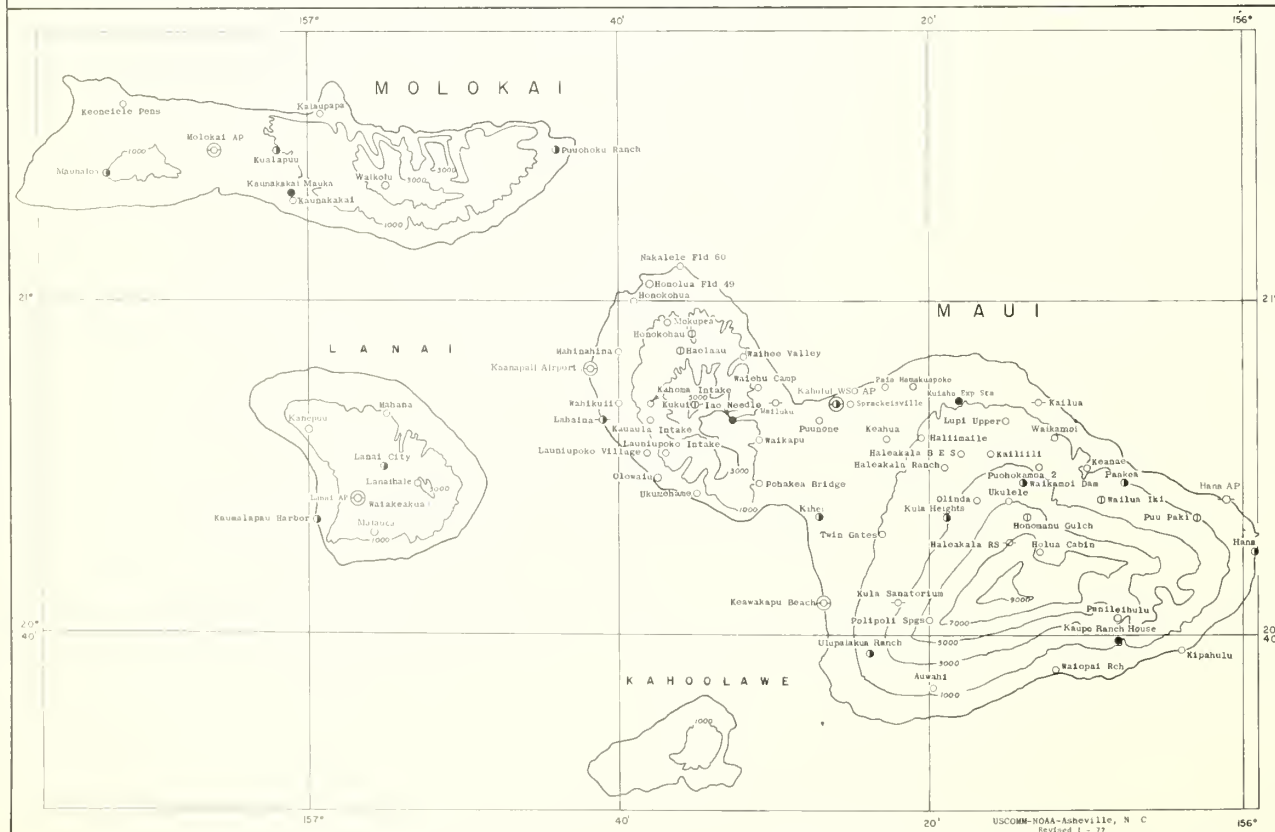
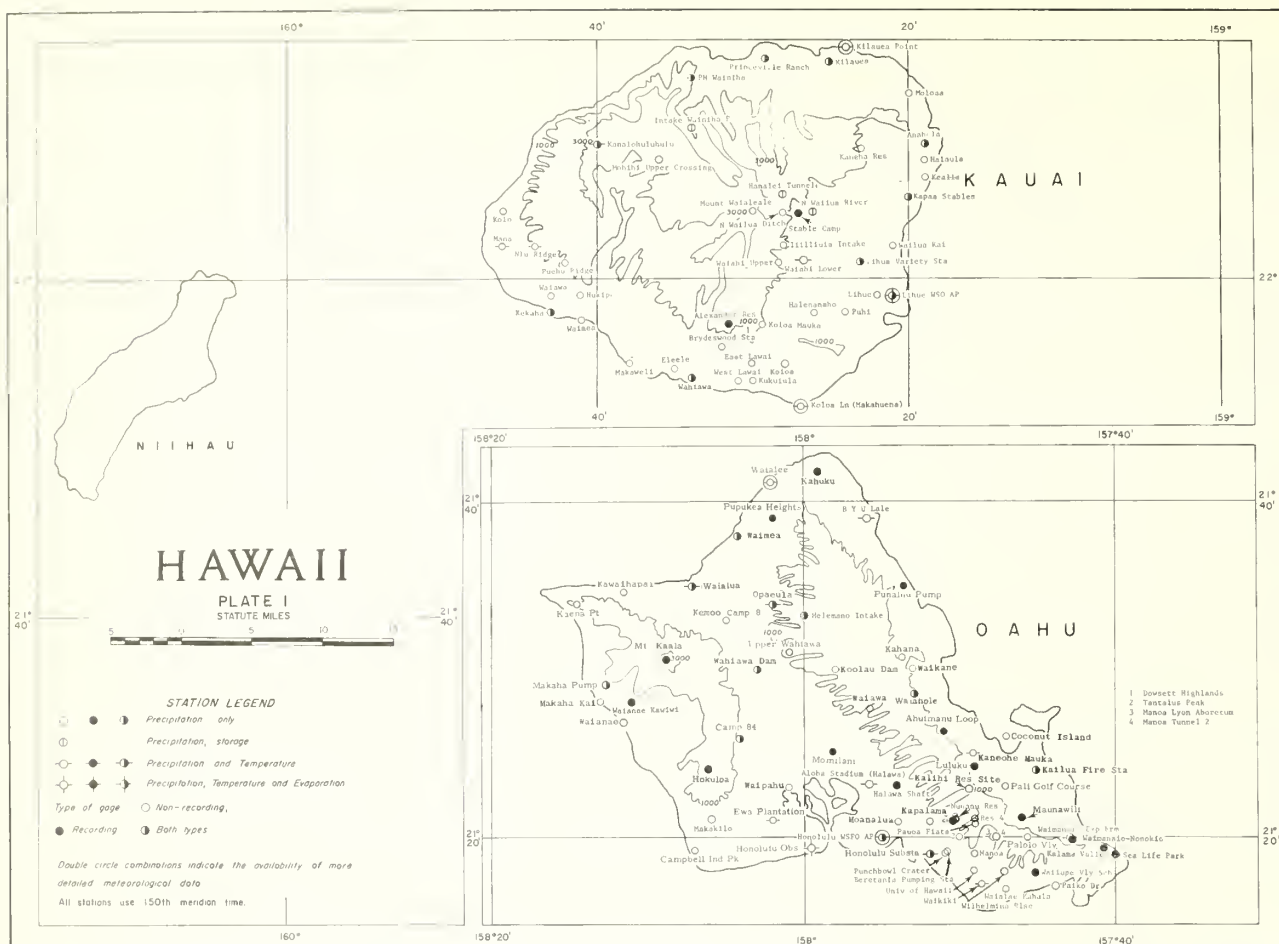
- No record.
- + Also on earlier date (dates) or months.
- \* Amount included in following measurement.
- A The letter "A" shown following station name, (Table 2 and Station Index): Amounts carried in the monthly "Precipitation" column are for the period from last measurement of a preceding month through the last measurement of the current month. See Daily Precipitation Table of the monthly Climatological Data for the dates of measurement. Measurements made on the first of a month are credited to the last day of the preceding month.
- B Adjusted to a full month.
- E Amount is wholly or partially estimated.
- M One or more days record missing; if average value is entered, less than 10 days record is missing. See monthly Climatological Data for detailed daily record.
- R Amounts from recording gage.
- T Trace, an amount too small to measure.
- V Includes total for previous month. V in annual column means total is for a two-year period.

IN THE STATION INDEX THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING:

- # Thermometers are generally exposed in a shelter located a few feet above sod covered ground; however, the reference indicates that the thermometers are exposed in a shelter located on the roof of a building.
  - † DRAINAGE CODE: KAUAI: 1-NORTHERN 2-SOUTHEASTERN 3-SOUTHWESTERN OAHU: 1-WINDWARD KOOLAU 2-HONOLULU 3-SOUTH-CENTRAL 4-WESTERN 5-NORTH-CENTRAL MOLOKAI: 1-(NO INTRA-ISLAND DIVISIONS) LANAI: 1-(NO INTRA-ISLAND DIVISIONS) MAUI: 1-NORTHEASTERN 2-SOUTHERN 3-CENTRAL 4-WESTERN HAWAII: 1-NORTHERN 2-EASTERN 3-SOUTHERN 4-WESTERN 5-CENTRAL
  - C In Special Column of Station Index indicates Recording Rain Gage Station. Hourly precipitation values are processed for special purposes, and are published later in the "Hourly Precipitation Data" bulletin. If daily amounts are published in "Climatological Data" bulletin they are from a separate non-recording gage, except where indicated by reference 'R'. Such amounts may differ from amounts published from the recording gage in the "Hourly Precipitation Data" bulletin.
  - S Storage precipitation station. Precipitation measurements, made at irregular intervals, will be published in the annual issue of this publication.
- Years of record as shown in the Station Index are approximate since gaps in the records may not have been considered in arriving at the totals shown.
- The four-digit identification numbers in the Index are assigned on an island basis. There will be no duplication of numbers within an island.
- The Pacific includes stations in the Trust Territory of the Pacific Islands, Territory of Guam, American Samoa, and other scattered islands and atolls.

Information concerning the history of changes in locations, elevations, exposure, etc., of substations through 1957 may be found in the publication "Substation History" for this State, price 40 cents. Similar information for regular National Weather Service Offices may be found in the latest annual issue of Local Climatological Data, price 20 cents. These publications may be obtained from the National Climatic Center at the address shown above.

Subscription Price: \$5.10 a year for each section including annual summary; \$5.55 additional for foreign mailing; 40¢ single copy; 30¢ annual summary. Make checks payable to Department of Commerce, NOAA: send payments and orders to: National Climatic Center, Federal Building, Asheville, N. C. 28801. Attn: Publications.



156°

40°

20°

155°

HAWAII

Upolu Point USCG

Kohala Mission

Hawi

Waikanonoula

Middle Pen

Kukuihaele Hill

Kukuihaele Mill

Haina

Kulawe Lower

Paahau

Paauilo

Eukalau

Okala

Lalamilo Field Office

Makahalau

Unioa

Waikaloa-Solus Cascades

Puu Waii

Halepiula

Puu Kihio

Keanao Camp

Honohina

Hakalau

Honolulu Mauka

Papaikou

Papaikou Mauka

Papaikou

Piikoua

Kipa

Saddle Road 1

Hilo Country Club

Hilo WSO AP

Waiakoa SCD

Kraao

Orchid Land Estate

Mountain View

Pahoa

Kapoho Landing

Lava Tree Park

Haloaunau

Hawaii Volcano NP Hq

Haloaunau

Pakao

Kapapala Ranch

Kapaew Camp

Pahala

Moaula

Kahiswai

Mauka

South Kona

Kaua 2

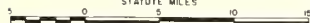
Naalehu

Kaua 1

Kaua 2

South Point Corral

HAWAII

PLATE 2  
STATUTE MILES

## STATION LEGEND

- ● ① Precipitation only
- ① Precipitation, storage
- ● ① Precipitation and Temperature
- ● ① Precipitation, Temperature and Evaporation
- Type of gage ○ Non-recording.
- Recording ① Both types

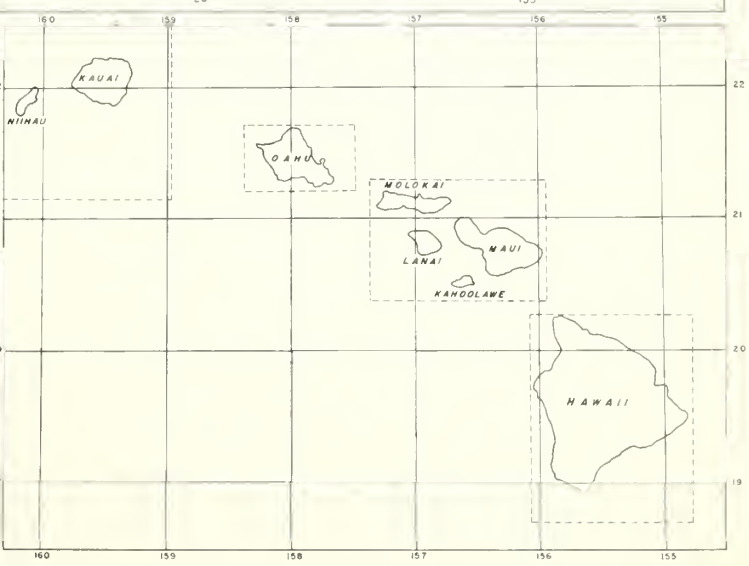
Double circle combinations indicate the availability of more detailed meteorological data  
All stations use 150th meridian time

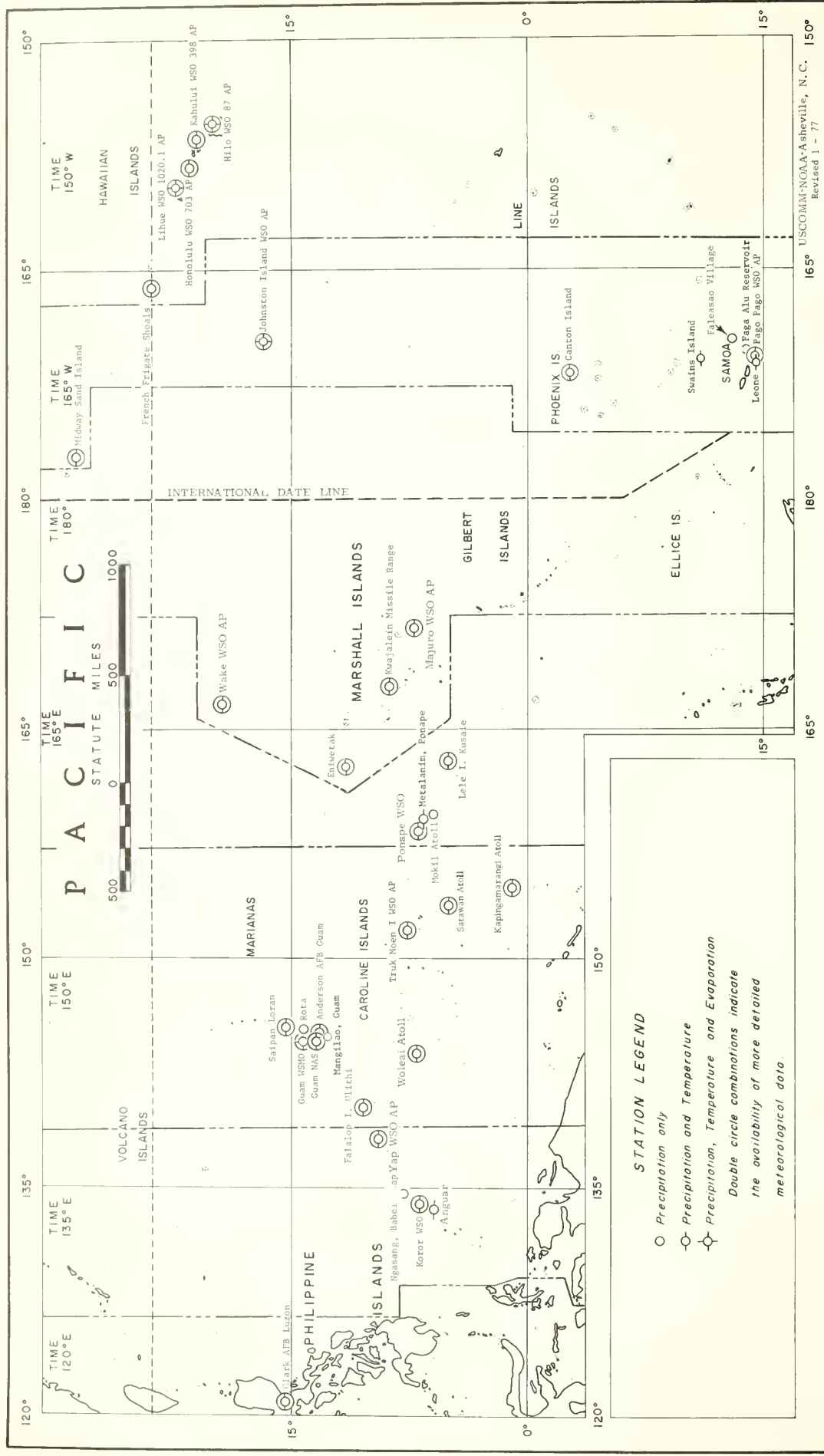
156°

40°

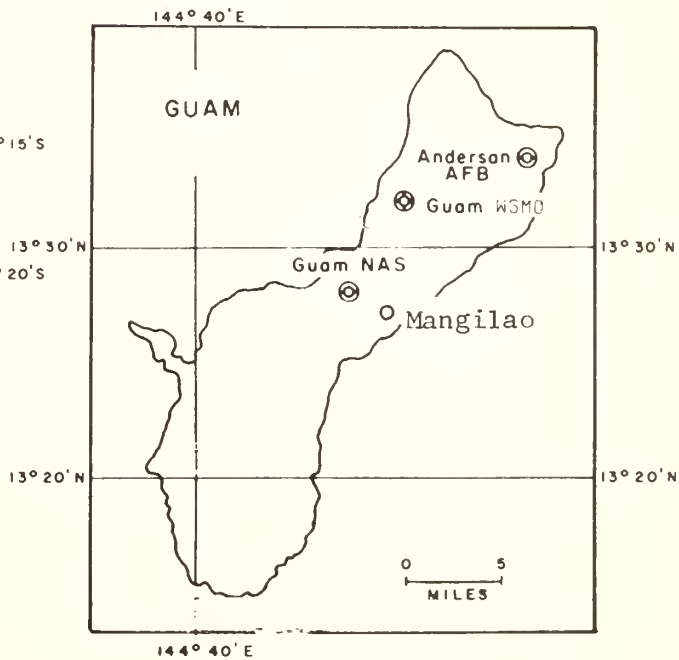
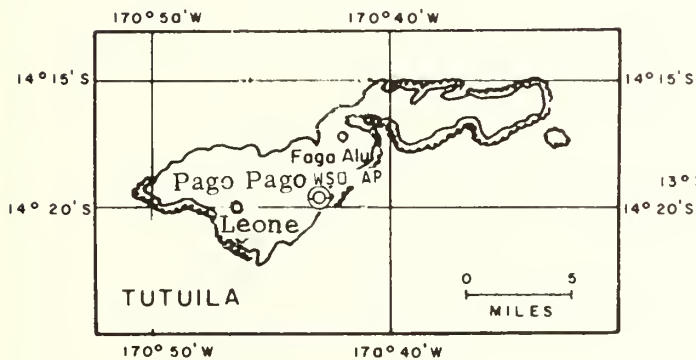
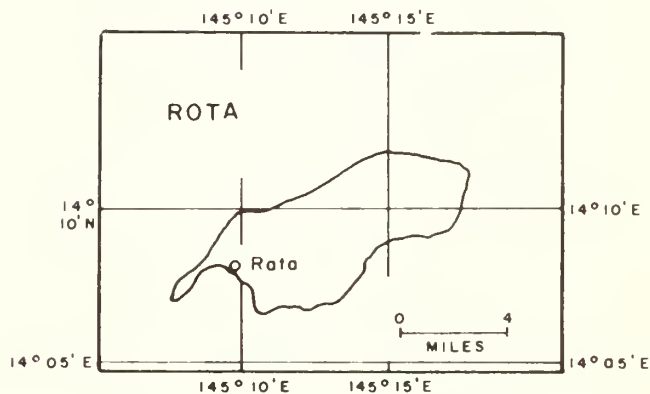
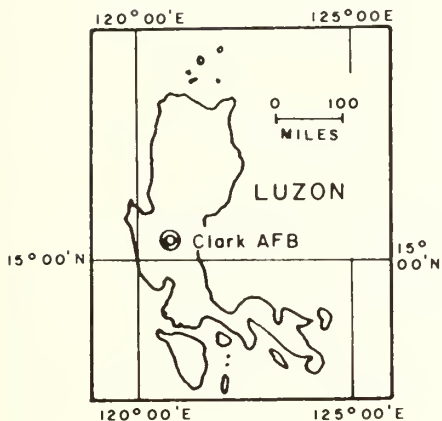
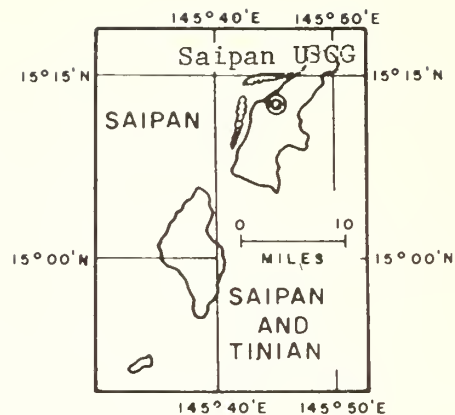
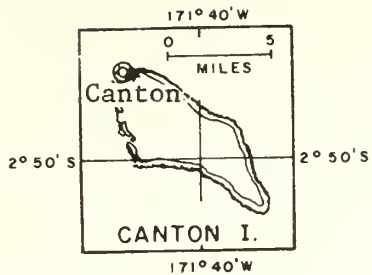
ESCOM-NOAA-Asheville, N. C.

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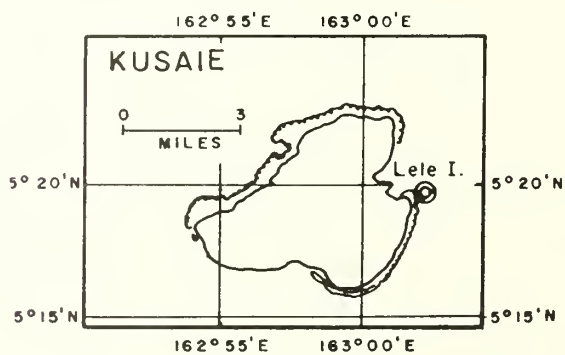
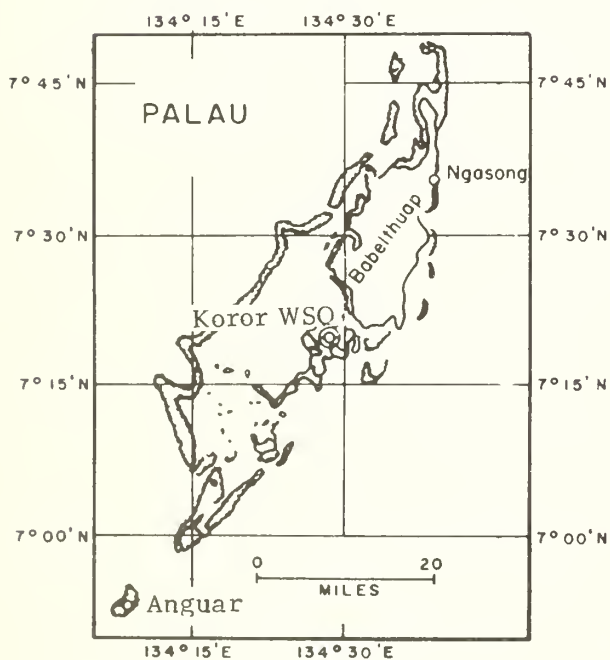
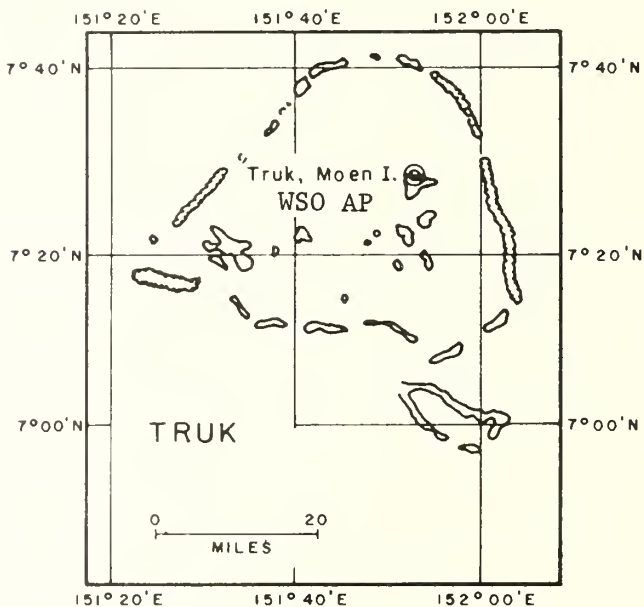
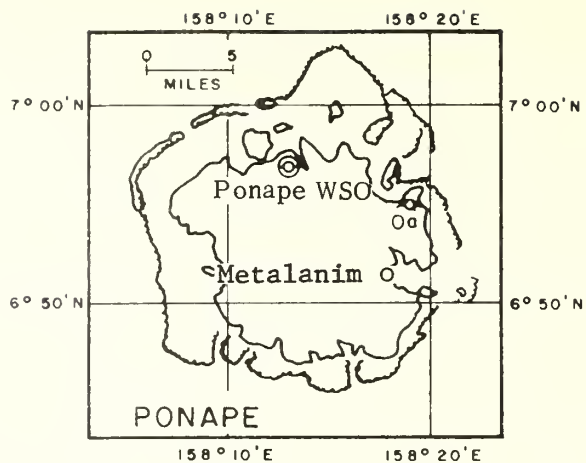
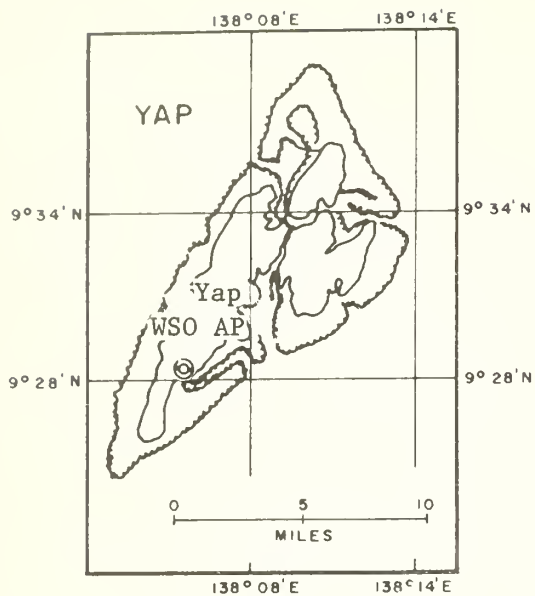




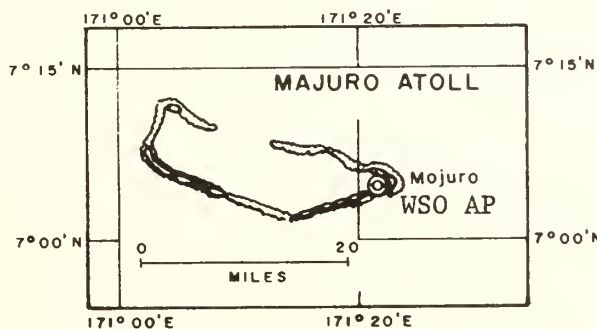
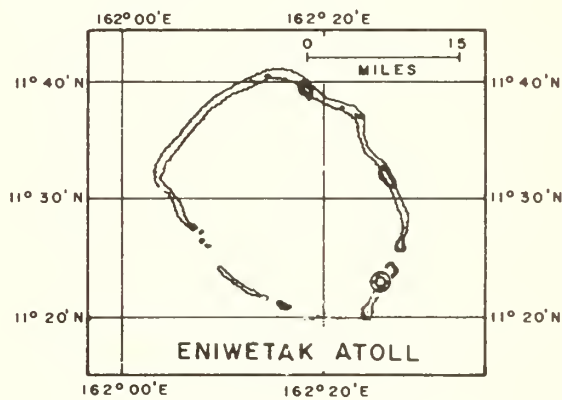
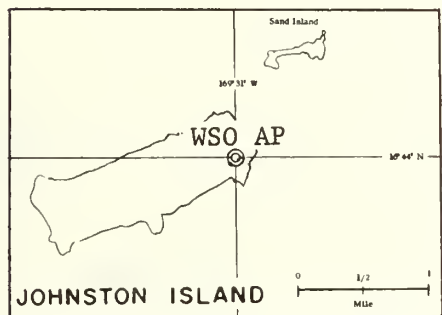
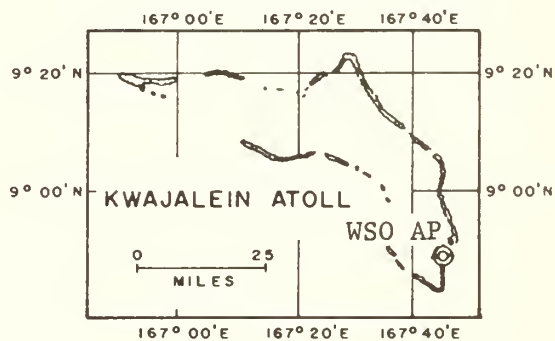
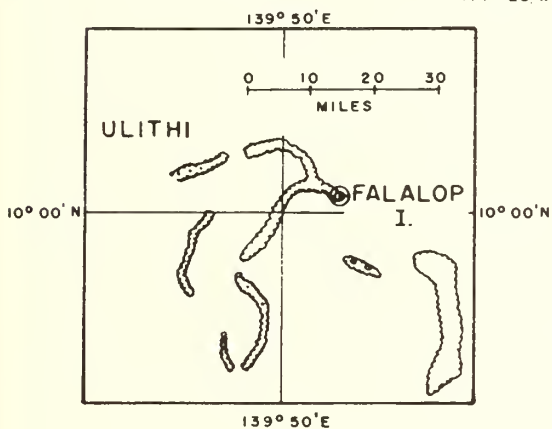
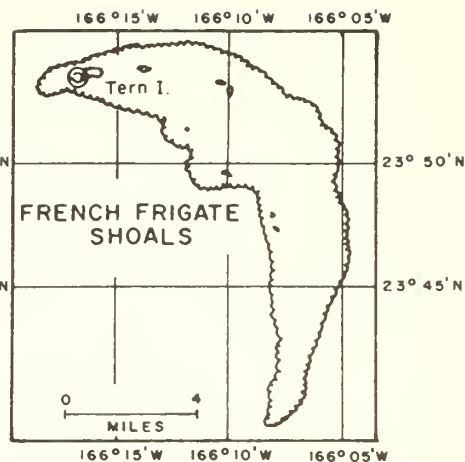
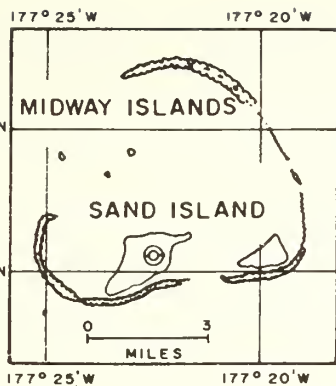
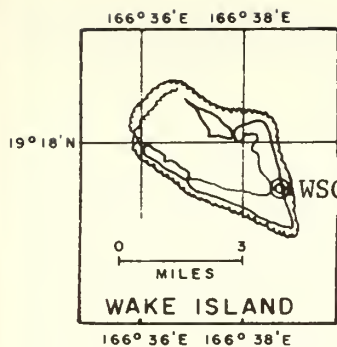




Reef



— Reef



U.S. DEPARTMENT OF COMMERCE  
NATIONAL CLIMATIC CENTER  
FEDERAL BUILDING  
ASHEVILLE, N.C. 28801

POSTAGE AND FEES PAID  
U.S. DEPARTMENT OF COMMERCE

COM 210



**THIRD CLASS**

# Climatological Data



## HAWAII AND PACIFIC

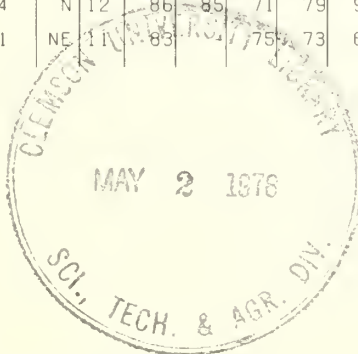
## TEMPERATURE AND PRECIPITATION EXTREMES

HAWAIIAN STATIONS ONLY

HIGHEST TEMPERATURE:	2 STATIONS	89	DATE	30+	
LOWEST TEMPERATURE:	MAUNA LOA SLOPE 085	HAWAII	29	DATE	30
GREATEST TOTAL PRECIPITATION:	KUKAIAU 222	HAWAII	18.86		
LEAST TOTAL PRECIPITATION:	4 STATIONS		.00		
GREATEST 1 DAY PRECIPITATION:	PAAUHAU 217	HAWAII	5.45	DATE	01

## SUPPLEMENTAL DATA

	WIND (SPEED - M.P.H.)						RELATIVE HUMIDITY AVERAGES- PERCENT				NUMBER OF DAYS WITH PRECIPITATION										PERCENT OF POSSIBLE SUNSHINE AVERAGE (TENTHS) SKY COVER SUNRISE TO SUNSET
	RESULTANT DIRECTION	RESULTANT SPEED	AVERAGE	FASTEST MILE	DIRECTION OF FASTEST MILE	DATE OF FASTEST MILE	STANDARD OF TIME				TRACE	.01-.09	.10-.49	.50-.99	1.00-1.99	2.00 AND OVER	TOTAL				
							GREENWICH CIVIL														
							12	18	00	06											
GUAM WSMO	-	-	-	26	E	15	-	73	72	84	1	11	6	1	0	0	19	51	6.6		
HILO WSO 87 AP	24	1.0	6.4	19	NW	11	86	79	68	84	4	5	6	1	2	0	18	54	5.4		
HONOLULU WSO 703 AP	5	2.5	9.7	25	E	18	74	75	55	66	5	1	2	0	0	0	8	68	4.5		
JOHNSTON WSO AP	8	15.5	17.8	33	NE	20+	78	77	70	75	10	9	3	0	0	0	22	76	4.3		
KAHULUI WSO 398 AP	8	3.2	10.0	30	SW	16	72	73	57	65	4	4	0	0	0	0	8	74	3.5		
KOROR WSO	7	8.3	9.7	25	NE	30	85	-	79	74	1	8	8	6	3	0	26	57	8.5		
KWAJALEIN MISSILE RGN	-	-	-	32++	8	06	82	83	74	78	3	5	9	2	2	2	23	-	7.4		
LIHUE WSO 1020.1 AP	4	2.4	9.9	25	SW	07	80	77	61	79	5	5	6	0	0	0	16	49	5.5		
MAJURO WSO AP	7	12.2	13.6	31	E	06	81	82	75	78	4	10	8	2	0	0	24	75	9.4		
PAGO PAGO WSO AP	6	7.1	10.6	36	NE	02	88	88	78	85	1	5	12	6	4	3	31	39	9.1		
PONAPE WSO	-	-	-	19	NE	26	83	-	77	81	5	8	4	6	2	3	28	19	9.7		
TRUK MOEN I. WSO AP	5	12.2	12.9	30	NE	07	79	-	76	74	6	8	5	1	1	1	22	49	9.9		
WAKE ISLAND WSO AP	6	12.3	15.8	44	N	12	86	85	71	79	9	6	4	0	0	0	19	55	5.4		
YAP WSO AP	7	9.5	10.0	21	NE	11	83	-	75	73	6	5	11	1	1	0	24	33	7.8		



I CERTIFY THAT THIS IS AN OFFICIAL PUBLICATION OF THE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION AND IS COMPILED FROM RECORDS ON FILE AT THE NATIONAL CLIMATIC CENTER, ASHEVILLE, NORTH CAROLINA 28801.

*Daniel B. Mitchell*

DIRECTOR  
NATIONAL CLIMATIC CENTER

**noaa**

NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION / ENVIRONMENTAL DATA SERVICE / NATIONAL CLIMATIC CENTER ASHEVILLE, N.C.



## MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

HAWAII AND PACIFIC  
JANUARY 1978

STATION		TEMPERATURE										PRECIPITATION																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
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HAWAII AND PACIFIC  
JANUARY 1978

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SEE REFERENCE NOTES FOLLOWING STATION INDEX

# DAILY PRECIPITATION

HAWAII AND PACIFIC  
JANUARY 1978

STATION	TOTAL	DAY OF MONTH																																
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
<b>HAWAII</b>																																		
<b>ISLAND OF KAUAI</b>																																		
ANAHOLA 1114	A	1.06	x	x	x	x	.03	x	x	.05					x	x	.25	.20			x	x	.18	.05					x	x	.30			
BRYCESWOOD STA 985	A	1.73	x	x	x		.28	.04		.43	.03	.03				x		.23	.67			x	x	.01					x	x	.01			
EAST LAHAI 934	A	1.63	x	x	x		.14		.03	x	x	.58	.02	.01			x	.20	.60			x	x	.02		.01			x	x	.02			
ELELE 927	A	1.30	x	x	x		.14			x	x	.41	T	.08			x	.11	.56										x	x	.25			
HALAULA 1110	A	1.25	x	x	x		.10			x	x	.03				x	x	.30	.32			x	x	.25	.07				x	x	.25			
HALENAHOU 1006	A	1.36						x	x	.12					.03	x	x	.69	.29										x	x	.09			
HANALEI TUNNEL 1053	A	2.80	x	x	x	x	x	x	x	.12				x	x	x	x	.45	.45	x	x	x	x	T	x			x	x	x	2.80			
HUKIPO 946	A	1.78						.38	.40		.17					.30		.05	.48										x	x	.10	.01		
ILILIULA INTAKE 1050	A	2.61	x	x	x	x	.10	.01		.33	.01	.01			x		1.53	.07	.02	.01	x	x	x	.23	.09	.08	.01		x	x	.10	.01		
INTAKE WAINIHA PC 1086	A	4.37	x	x	x	1.84	x	x	.23		.10				x		.74	x	.53				x	.85	x		.04		x	x	.04			
KANALOHULULU 1075	A	5.33	.11	.06	.02		.03	.32	1.41	.01	.43	.29	.03			.25	.50	1.54				.02	.01		.22		.02		x	x	.02	.04		
KANEHA RESERVOIR 1092	A	2.23	x	x	x	x	.15			.05						.45	x	.22	.22			.03	x	.25	.40	.08	.02		x	x	.37			
KAPAA STABLES 1104	A	1.05	x	x	x	x	.10			.07							.28	.08	.26									x	x	.27	.03			
KALIA 1112	A	1.27	x	x	x	x	.10			.05							.20	.20					x	.15	.10			x	x	.46	.02			
KEKAHA 944	A	1.47	.01					.22	.19		.18	.08				.23		.05	.50															
KILAUEA 1134	A	1.58		.38				.03	.08		.05	.15				.24		.25	.05								.15		.03	.05				
KILAUEA POINT 1133	A	.86	.02	.17	.01	.01		.03	.05		.17	.01				.17		.01			.01		.10	.08	.08				.02					
KOLO 1033	A	1.66	.16					.06	.32		.10	.08					.44	x	.15				.16	.08	.08									
KOLAA 936	A	1.41						.06	.07	.05	.40		.01				.26	.51				x	.04	.02	.10		.01	.01		x	.07			
KOLAA LN (MPK) 940.1	A	.86	.02	.01				.06	.07	.05			.01			.11	.08	.42					.01											
KOLAA MUKA 994	A	2.07	x	x	x	.27	T	x	x	x	.40	x		x	x	x	1.30			x	x	x	x	.07	.01	x	x	x	x	.02	.05			
KUKUIULA 935	A	1.19	x	x	x	.11	.05	x	x	.27	T					x	.09	.50							.02	x	x	x	x	.02	.05			
LIHUE VARIETY ST 10621	A	.94	x	x	x	x	.07	x	x	.05		.05					.41	.13				x	.06	.07	.03			x	x	.07				
LIHUE 1020	A	1.68	x	x	x	x	.52			.03		.03					.13					x	.16	.08	.08				x	x	.20			
LIHUE WSO 1020.1 AP	///R	1.37	.20	.28	T	.02		.01			.05					.37					T		.11	T		T			.02	.17				
MAKAHELI 965	A	1.28				.01		.16	.17		.11	.03					.18	.62	.01															
MAKA 1026	A	1.46						.14	.40		.15	.03				.18		.44																
MOHINI UPR CROSS 1083	A	3.92	x	2.38	x	x	x	x	x	.43	x	x	x		x	x	.38	x	x	x	x	x	x	.43	x		x	x	x	.30				
MOLAA 1145	A	2.66	.16			.04	.04	.04								.12	.67					.20	.08	.55						.24				
MOUNT WAIKALEALE 1047	A	2.26				.24	.07	.55		.10									.67		.63													
NIU RIDGE 1035	A	3.68	x	x	x	x	.99	x	x	.23	.01	.01		x	x	x	1.56	.02			x	x	x	.43	.25	.05	.02		x	x	.08	.02		
N WAILUA RIVER 1055	A	1.00	x	x	x	x	.15	x	x	.27				x	x	x	.32	1.15			x	x	x	1.15	.09	.03	.01		x	x	.02	.05		
PH WAINIHA 1115	A	6.39	x	x	x	2.43	.12	.23	x	x	.43	.27	.09		x	x	x	.25	.40			.02	x	.25	.11	.21	.01		x	x	.05			
PRINCEVILLE RANCH 1117	A	3.41	x	x	1.54	.01	.02			.23	.24	.07																						
PUEHU RIDGE 1040	A	2.89				.12	.12		.73		.20	.09					.78	.85																
PUHI 1013	A	1.05				.15		x	x	.24				T	x	x	.20	x	.42			x	.03	T		T		x	x	.01				
WAILAUA 930	A	1.22	x	x	x	.15	T			.27	T	.05					.10	.65	T															
WAILAUA LOWER 1054	A	2.20	.21	.08	.04			.04	.06	.03	.01	.01				.21	.41	.31	.02	.01	.01	.02	.08	.14	.12	.06	.02	.01		.12	.04	.01		
WAILAUA UPPER 1052	A	2.21	.05	x	x	x	.08	.01		.22	.02		.01			.37	.50	.16	.02	.02	.02	.04	.11	.18	.12	.08		.02	.13	.02	.04	.01		
WAILAUA 943	A	1.51						.17	.32		.29	.07					.19	.07	.40															
WAILUA KAI 1065	A	1.82	x	x	x	x	.07										.30	.12																
WAIKOA 947	A	1.20						.12	.10		.07	.07				.20		.04	.60															
WEST LAHAI 931	A	1.08	x	x	x	.11	.02	x	x	.15	.02						.12	.57									T		x	x	.04	.06		
<b>ISLAND OF OAHU</b>																																		
ALOA STADIUM-HALAUA		.82	x	x	.27			.01			.01			x	x		.15	.33								.05								
BETANETUM PUMPING STA		.73	x	x	.25			.06			.01						.11	.26								.02		.03						
B Y U LAIE 903.1		5.06	x	x	x	x	2.70			.11		.20					.11	.39	.10				.13	.01	.10				.21					
CAMPBELL IND PK 702.5		1.13	.16	T				.13		.12	x	.01	.01	x	x	x	.19	.69	x	x	x	x	x	x	.03	T								
CAMP B4 807	A	1.74	x	x	.63	x	x	x	x	.12	x	.01	.01	x	x	x	.19	.69	x	x	x	x	x	x	.03	T								
COCONUT ISLAND 840.1	V	1.74	x	x	1.25			x	x	.01				x	x	x	.02	.22								.01			x	x	.11			
ELWA PLANTATION 741	A	1.14	x	x	x	.29		x	x	.14		.01		x	x	x	.34	.36																
HELEMANU INTAKE 881	A	1.42	x	x	x	x	x	x	x	.10				x	x	x	.50	x	x	.54	x	x	x	.14	x	x	x	x	x	.14				
HONOLULU OBSERV 702.2	A	.71	.27	T				.08									.05	.19	.15															
HONOLULU WSO 703 AP	R	.34	T					.07			T	T					.10	.17								T								
KAEHA POINT 841.3	A	2.44	x	x	x	x	x	x	.18	x	x	x	x	x	x	x	1.74	x	x	x	x	x	x	x	x	x	x	x	x	x	.51			
KAHANA 883	A	6.23	x	x	x	3.28	x	x	.02	x	x	x	x	x	x	x	.22	.19			.01	.01	.03	.07					.09	.05				
KAILUA FIVE STA 791.3	A	2.49	x	x	1.82																													
KALIHU RES SITE 777	R	4.18	.58	.64	.25	.02		.04			.62	.42					.46	.33			.66	.12	.03	.10	.06				.30	.64				
KANEHE MAUKA 781	A	3.16	.50	.65	.25	.02		.03		.03							.46	.33											.05	.17	.25			
K																																		

HAWAII AND PACIFIC  
JANUARY 1978SEE REFERENCE NOTES FOLLOWING STATION INDEX



# DAILY PRECIPITATION

HAWAII AND PACIFIC  
JANUARY 1978

STATION	TOTAL	DAY OF MONTH																															
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
HAWAII																																	
KONA (KAILUA) 68.3	A	.08		.08																													
KONA VILLAGE 93.8		.40	T																														
KUKAIAU 222		18.86	5.32	4.00	1.93	.60	T	.20		.02												.07	4.04	.04	.25	.03	.11	.63	T	T	T		
KUKUIHALE HIC 199		15.10	4.22	3.64	2.66	.53																.18	2.03		.53	.05	.42	.34					
KUKUIHALE MILL 206	A	13.06	x	x	8.86	.44																.15	x	x	2.26	.56	.03	.35	.25	x	x	.05	
KULANI CAMP 79		3.64		.04	.26																	.02	.61	.24	.01	.15	.01	.90	.85	.50	.05		
KULANI MAUKA 76		.33																				x	x	x	x	.12	x	x	x	x	x	.21	
KULANI SCHOOL SITE 78	A	1.98	x	x	x	x	x	x	.54	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	
LANIHAI 68.2		.13	.06																														
MAKAHALA 103	A	2.77	x	x	2.30																												
MAUKA 2	A	.51	x	x	.20																												
MAUKA KEA OBS 111.2		.08	.08																														
MAUKA LOR SLOPE OBS	A	.01																															
MIDDLE MOULDERA 68.1	A	.26	x	x	.10	x	x	x	x	x	x	.16	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	
MIDDLE PEN 147.1	A	.79	x	x	.20	x	x	.30	x	x	.18	x	x	x	x	x	x	x	x	x	.11	x	x	x	x	x	x	x	x	x	x	x	
MOAULA 18	A	.12																															
MOUNTAIN VIEW 81	A	6.19	x	x	x	1.50	.04							.02																			
NAALEHU 14	A	.92		.21																		.19	x	x	2.12	.06	.61	.21	.98	x	x	.48	
NAPPOPOO 28	A	.08	x	x	.04																												
OKALA 223	A	14.66	5.36	2.49	1.46	.58	.02	T	T																								
OPIHIHALE 2 24.1		.80	.21	.02	T			.01						.04																			
ORCHID LAND EST 91.5	A	5.00	x	x	x	x	x	.96																									
PARAHU 217		13.32	5.45	3.29	1.73	.18							.01																				
PARUULO 221		15.66	4.37	2.85	1.90	.67	T																										
PAHALA 21	A	.53		.27				.04					.01	T																			
PAHUA 65		5.77	x	x	x	1.07	.05	.16																									
PAKAB 37	A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
PAPAIKOU 144.1	A	5.43	.54	.31	.40	.26																											
PAPAIKOU MAUKA 140.1	A	8.59	.33	.43	.60	.45	.02																										
PIIHOHUA 89	A	7.30	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	
POHAKULOA 107	A	.00																															
PUUKOHOLA HEIAU 98.1	A	.82	.08	.22	.22		.10	.18																									
PUU LEHUA 73	A	.05	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	.05	
PUU WAHUA 94.1	A	1.47	x	x	1.36																												
SADOLE ROAD 1 84	A	6.45	x	x	x	x	1.48	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	
SOUTH KONA 2 31		.76		.68																													
SOUTH POINT CORRAL 3	A	.33	x	x	x	x	x	.03																									
UPOLU POINT USCG 159.2		1.89	.10	.20	.14			.21																									
WAIKAKA SCD 88.2		7.85	.14	.93	.41	.08																											
WAIKALOA-BOIS CRS 95.8	A	.68	.62	x	.01	.02																											

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# DAILY PRECIPITATION

HAWAII AND PACIFIC  
JANUARY 1979

STATION	TOTAL	DAY OF MONTH																															
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
PACIFIC																																	
EAST OF 180TH MERIDIAN																																	
ATU U	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
CANTON ISLAND	6.69	x	1.74	-	-	.16	.01	.06	-	-	.10	.30	.02	-	-	x	1.86	-	.03	-	-	-	-	-	-	-	.07	1.89	.17	.01	x	.08	-
FALERSAQ VILLAGE	21.06	.06	.46	.01	-	-	.06	T	.99	.85	-	-	.04	.13	.08	.81	.86	.94	.27	.14	.09	.36	.62	1.77	2.06	2.85	2.18	.76	.96	1.06	3.31	.16	-
JOHNSTON IS WSO AP	.59	.03	.12	.01	T	-	-	-	.01	T	.01	.04	T	T	-	.08	.08	T	.12	T	-	T	.04	.11	T	T	.02	.02	.02	T	-	T	-
LEONE	30.09	.06	1.76	.04	.30	.03	.30	2.49	4.11	2.14	1.65	.41	.14	.36	.64	.35	1.18	.46	.60	.10	.52	.41	.12	1.66	2.70	1.46	.50	3.40	.18	.41	1.21	.41	-
FRENCH FRIGATE SHOALS	1.23	-	-	-	-	-	.02	.24	.06	.53	.08	-	-	-	.07	.02	.03	-	-	-	.02	.01	.02	.08	-	-	-	.02	-	.03	-	-	-
MIDWAY SAND ISLAND	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PAGO PAGO WSO AP	R 21.36	.12	1.16	.02	.21	.05	T	.42	3.65	.51	.71	.17	.10	.42	.17	.07	.54	.44	.25	.67	.01	.36	1.74	1.43	.68	.96	1.02	2.52	.04	.12	2.69	.11	-
WESTERN PACIFIC ISL. NORTH OF 12 N																																	
ANDERSEN AFB GUAM	1.96	-	-	.07	.64	T	.01	.01	T	.01	T	-	T	.02	.03	.06	T	T	-	.01	-	.01	T	.02	.41	.19	.13	.14	.02	.07	.11	-	-
CLARK AFB LUZON	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GUAM NAS	R 2.44	-	-	.10	.56	-	-	.06	.01	-	-	.02	.02	.02	.04	.08	.01	-	T	-	-	-	.08	.47	.22	.18	.33	.10	.08	.05	-	-	-
MANGILAO	2.31	.04	.02	-	.06	.10	-	.06	.06	.05	-	.02	-	-	-	.10	.10	-	-	-	-	-	-	.28	.41	.17	.50	.10	.20	.10	-	-	-
ROTA	2.30	-	-	-	.01	-	-	-	-	-	-	-	-	x	x	x	.54	.13	.01	-	-	-	-	.01	.36	.25	.11	x	x	.88	-	-	-
SAIPAN LORAN	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
WAKE ISLAND WSO AP	R 1.00	.25	T	T	.02	.16	.01	T	-	T	.01	-	.29	.07	T	-	-	-	-	T	.01	-	T	-	.01	T	.17	-	-	T	-	-	-
CAROLINE AND MARSHALL ISLANDS																																	
ANGUAR	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ENIWEATK	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
FALALDP 1 ULITHI ATOLL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
KAPINGMARANGI ATOLL	-	.30	.60	.10	.80	.30	-	-	-	-	.15	-	.02	.20	.80	.18	.06	-	.70	-	.14	-	1.85	1.20	.06	.47	-	.23	.17	.08	-	-	-
KORON WSO	R 10.34	.74	1.45	-	.01	.01	.16	.73	.26	1.86	.04	.65	.72	.02	.03	.02	1.06	.15	.04	T	.15	.03	.18	.40	.14	.24	.70	.54	-	-	-	-	-
KWAJALEIN MISSILE RGN	R 13.86	.16	.28	.15	.15	.24	3.20	1.07	.88	.29	.02	T	.21	.16	1.24	4.79	.01	T	T	T	.03	.13	.01	-	-	-	-	.78	.06	-	-	-	
LELE I KOSRAE	-	-	-	-	-	3.87	2.31	1.88	.29	.17	.75	2.24	.16	.18	1.64	.27	.10	.48	T	T	T	.05	1.26	1.14	.38	.02	.67	1.18	.11	.04	-	-	-
MAJURO WSO AP	R 3.60	-	.02	.23	.12	.05	.26	.67	.20	.33	.08	.23	.06	.03	T	-	.03	T	.05	.54	.48	.02	.13	T	T	T	T	.01	.06	-	-	-	
METALANIM	13.54	.03	.12	.04	.01	1.18	.08	.40	.01	.08	1.35	.10	.01	.06	.05	.38	.45	1.18	-	.02	.03	-	.03	1.40	.48	5.10	.17	.02	.02	.04	.70	-	-
MEKIL ATOLL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NGASANG-BADELTHURP	16.41	1.98	-	.02	.40	1.97	-	.13	1.44	2.01	1.94	.05	.03	.22	.86	-	1.27	.10	.30	.23	.14	.01	.52	.90	.52	.15	.69	.53	-	-	-	-	-
PONAPE WSO	R 16.38	.27	.02	T	T	1.04	.02	.66	.05	.54	2.25	.54	T	.03	.10	.62	.35	.79	T	.02	-	.06	3.73	1.06	3.47	.13	T	.02	.04	.57	-	-	-
SATAVAN ATOLL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TRUK; MOEN I. WSO AP	R 5.73	-	.50	-	-	.06	.05	-	-	.01	.03	T	-	-	-	T	1.30	.30	.01	.26	T	T	T	.14	.02	.49	2.13	.30	.07	-	.06	T	-
WOLEAI ATOLL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
YAP WSO AP	R 4.22	1.02	.25	-	.02	-	-	.09	.01	-	T	T	T	.10	T	-	.12	T	.38	.50	-	.10	.13	.02	.02	.38	.20	.15	.43	.30	T	-	-

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# DAILY TEMPERATURES

HAWAII AND PACIFIC  
JANUARY 1978

STATION	DAY OF MONTH																																	AVERAGE
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31			
HAWAII																																		
ISLAND OF KAUAI																																		
KANALOHULU 1075	MAX MIN	61 52	63 46	60 42	63 42	66 43	63 45	61 53	62 57	63 49	65 54	63 52	65 40	67 36	65 55	61 56	58 41	64 39	64 38	64 45	66 41	66 42	67 46	67 45	66 47	67 45	68 45	70 44	67 40	69 45	66 43	64.6 45.9		
KILAUEA POINT 1133	MAX MIN	81 66	81 68	81 68	78 66	79 68	82 67	85 70	85 67	85 68	81 67	80 63	80 62	84 66	83 66	81 67	81 65	78 65	78 69	79 69	78 70	78 68	86 67	87 67	86 66	83 69	82 69	79 70	79 68	82 67	84 67	86 65	81.8 67.1	
KOLOR LN (MAK) 940.1	MAX MIN	74 64	76 64	76 62	77 62	82 62	82 62	81 61	82 66	84 65	82 66	84 60	84 60	80 61	83 61	85 68	77 68	77 62	74 63	77 66	80 69	80 68	86 68	70 67	78 69	80 68	80 69	80 69	80 68	81 68	86 66	79.9 65.1		
LIHUE WSO 1020.1 AP	MAX MIN	75 67	80 66	76 62	80 64	81 62	80 63	79 68	82 63	82 65	80 65	80 60	78 57	82 59	83 67	73 66	80 65	75 63	79 68	79 67	80 65	81 63	81 64	80 68	79 68	78 67	78 66	78 66	82 63	82 63	83 62	79.5 64.4		
MANA 1026	MAX MIN	84 62	80 61	80 62	78 60	81 62	81 65	81 64	80 66	83 66	84 64	79 68	78 58	80 61	77 64	75 56	77 57	78 60	83 58	83 59	83 60	82 63	82 64	82 60	81 63	83 58	82 58	81 63	83 58	85 63	81 58	80.9 61.7		
NIU RIDGE 1035	MAX MIN					79 57	76 59				78 61	79 65	79 64	78 65			70 56	72 53			72 50	71 50			71 50	78 56	79 55	79 55			78 55	78 57		
WAIHAI LOWER 1054	MAX MIN	67 61	74 58	70 54	69 56	77 54	77 55	76 59	75 58	78 59	78 61	76 54	77 47	74 47	78 56	76 65	69 65	70 56	70 58	77 59	75 62	74 60	75 59	76 56	74 59	76 60	75 58	74 57	74 58	79 59	78 53	73 54	74.5 57.3	
ISLAND OF OAHU																																		
ALOHA STADIUM-HALAWA	MAX MIN			81 61	78 60	81 60	81 61	81 61		82 66	83 67	82 66	82 65	81 57			83 61	81 62	74 65					85 62	82 63	80 65	80 68	82 68			81 67	81 68	80.9 63.8	
B Y U LAIE 903.1	MAX MIN						82 59	82 60	83 60	84 62	85 77	84 64	82 57	83 57	83 60	82 61	83 63	82 65	84 67	82 70	80 70	80 68	82 67	82 63	80 72	80 71	80 70	80 71	80 66	79 63	80 61	81 51	81.7 64.8	
EWA PLANTATION 741	MAX MIN					80 57	79 59			82 59	82 65	83 64	81 55	79 55			83 58	80 58	75 58	80 59	80 59			86 60	80 60	82 65	83 63	82 62			84 59	82 58		
HONOLULU WSO 703 AP	MAX MIN	76 70	81 67	80 63	80 61	80 62	82 60	83 61	83 71	83 71	84 69	84 63	79 57	80 57	82 73	78 60	82 68	77 64	81 68	83 69	84 69	86 67	87 67	81 64	84 73	84 71	84 66	84 71	84 70	81 66	81 65	81.8 66.5		
KANEHE MAUKA 781	MAX MIN	78 65	69 66	74 66	76 65	78 60	77 66	80 70	78 71	80 70	79 71	81 68	79 64	77 64	80 65	73 72	74 71	79 65	73 67	75 63	76 69	76 69	75 65	81 66	76 69	72 68	77 68	76 68	77 68	76 65	76 65	76.9 67.2		
MANOA LYON ARBORETUM	MAX MIN	77 64	70 64	75 63	75 65	59 58	80 59	79 66	80 65	79 65	80 64	81 62	81 57	80 57	80 66	81 66	72 67	76 63	71 63	79 64	76 67	80 65	81 63	83 62	75 65	80 65	75 65	76 65	76 64	80 64	81 58	81 58	78.2 62.7	
OPAEULA 870	MAX MIN					87 59	84 59	84 59			85 63	85 62	85 54	84 54			80 59	79 59	70 61	74 59	75 61			82 57	73 63	77 62	77 58			75 62	80 56			
WAIALEE 896.3	MAX MIN	76 66	72 68	71 68	74 62	76 62	79 66	78 68	80 70	81 65	81 70	79 71	77 64	77 60	80 65	85 68	74 68	81 65	73 63	76 67	72 68	78 65	77 65	80 66	76 67	77 70	76 69	77 67	77 67	77 69	77 62	77.1 66.4		
WAIALUA 847	MAX MIN	78 66	76 67	77 69	82 55	80 56	82 56	84 58	84 58	81 66	82 66	78 63	77 55	78 54	80 54	84 60	73 64	79 52	79 60	80 59	80 59	84 62	82 60	78 61	80 57	80 56	80 55	80 56	81 57	82 63	80 57	79.8 59.2		
WAIKIKI 717.2	MAX MIN	81 64	77 64	80 61	79 66	83 57	80 56	83 57	81 60	82 68	83 66	82 60	82 53	80 54	82 57	81 68	78 68	81 60	77 62	80 64	82 67	82 66	85 61	84 59	82 59	82 65	84 65	85 63	84 63	84 56	81.8 61.6			
WAIMANALO EXP FARM	MAX MIN	77 66	72 64	76 63	76 59	78 59	81 58	83 60	80 70	81 68	81 66	80 62	81 61	76 59	81 67	82 66	75 70	79 66	73 65	77 66	79 69	79 69	79 67	82 62	80 63	80 63	79 69	79 68	78 68	81 59	78.8 64.8			
ISLAND OF MOLOKAI																																		
MOLOKAI AP 524	MAX MIN	76 66	74 67	78 67	77 62	80 62	78 63	78 69	80 70	82 66	80 69	79 69	78 62	78 65	80 67	80 69	80 69	78 64	73 63	79 63	81 67	79 68	80 66	80 66	82 70	81 69	82 68	82 69	82 69	80 68	80 65	79.3 66.4		
ISLAND OF LANAI																																		
LANAI AIRPORT 656	MAX MIN	75 61	75 60	73 61	76 61	76 56	76 62	74 61	76 63	78 59	77 60	76 64	76 55	74 56	77 61	77 60	74 61	78 59	68 54	73 56	77 56	76 58	79 58	76 61	77 65	78 68	77 64	75 59	77 59	79 60	80 58	80 54	76.1 59.1	
LANAI CITY 672	MAX MIN			79 60	75 62	74 59	74 64				77 60	75 62	75 63	74 59			74 59	71 58	74 56	75 63	74 63			75 59	74 63	74 60	73 63	78 63			76 63	76 57		
ISLAND OF MAUI																																		
HALEAKALA R5 338	MAX MIN	61 44	60 41	58 40	60 42	60 39	55 40	57 44	58 49	61 56	66 45	58 42	59 38	66 47	71 47	72 39	68 41	65 39	62 43	67 40	66 44	66 42	67 37	67 39	66 44	67 43	64 40	60 41	64 41	67 43	63 35	63 37	63.4 42.0	
HANA AIRPORT 355	MAX MIN	79 65	74 65	74 64	75 66	78 62	78 63	78 59	81 58	83 66	82 62	81 63	80 60	75 58	80 61	80 62	85 63	82 62	75 65	76 67	80 70	79 70	78 68	80 61	79 65	81 68	80 64	79 63	79 68	89 67	78 64	80 62	79.3 63.9	
KAHANAPALI AP 453.1	MAX MIN	77 65	77 65	77 66	76 61	79 63	78 67	78 67	79 71	78 66	79 69	77 63	77 63	77 61	79 69	77 67	78 70	78 65	73 58	77 63	78 66	78 66	81 65	80 61	80 68	80 64	80 62	78 65	80 65	80 65	78 62	78.4 64.9		
KAHULUI WSO 398 AP	MAX MIN	79 71	79 70	80 68	82 64	82 61	83 68	82 70	84 68	82 64	82 73	81 67	78 61	82 59	83 69	83 68	82 62	78 61	82 69	82 70	83 66	82 61	81 70	83 66	84 62	81 60	84 62	80 62	82 64	85 64	80 61	81.8 66.1		
KAILUA 446	MAX MIN					77 61	75 60	77 60			81 59	81 64	82 62	77 55			78 63	82 58	71 67	74 67	77 67			77 59	78 60	77 68	75 62	74 63			75 60	76 60		
KEAWAKAPU BEACH 260.2	MAX MIN	80 66	80 66	80 64	80 59	83 59	82 56	80 66	80 59	83 64	84 65	83 61	83 61	81 59	80 69	83 64	83 69	82 65	82 57	82 58	83 60	82 61	85 59	82 61	85 61	82 61	82 58	84 61	82 58	84 63	85 60	82.3 62.0		
KULA SANATORIUM 267	MAX MIN	67 57	67 57	74 54	69 54	72 55	70 56	74 57	69 55	73 56	71 62	74 59	74 51	70 52	70 56	74 56	72 69	69 60	70 48	70 50	70 54	71 54	72 55	70 56	71 56	72 55	70 54	71 50	70 51	71 53	71 54	70.9 54.7		

SEE REFERENCE NOTES FOLLOWING STATION INDEX

# DAILY TEMPERATURES

HAWAII AND PACIFIC  
JANUARY 1978

STATION	DAY OF MONTH																															AVERAGE		
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31			
HAWAII																																		
LAHAINA 361	MAX MIN	83 66	83 62	81 62	84 62	82 62	80 62	82 65	81 66	82 64	84 64	82 65	78 57	78 58	77 63	82 66	80 62	80 59	82 62	82 61	83 61	82 62	85 60	84 64	83 65	84 63	79 62	79 60	79 64	86 62	86 63	81.6 62.6		
WAILUKU 386	MAX MIN			81 64	76 65	78 62	84 63			86 62	83 62	87 63	77 59	74 57		87 61	84 64	74 63	77 65	78 67			81 60	77 67	78 68	79 66	74 66			82 61	78 61			
" " "																																		
ISLAND OF HAWAII																																		
HAWAII VOLCNS NP HQ 54	MAX MIN	73 55	70 51	69 51	69 48	67 46	69 51	69 50	71 45	73 45	76 45	75 50	72 46	70 43	75 47	69 45	71 45	69 44	67 34			64 55	66 55	62 55	63 49	69 50	69 51	63 50	67 51	61 48	67 47	66 46	66 47	68 44
HILO WSO AP 87	MAX MIN	77 68	80 64	72 67	78 66	82 63	81 60	82 63	85 61	84 60	83 61	81 64	79 59	83 56	82 57	84 60	82 60	79 65	82 63	82 65	79 66	79 68	83 64	82 60	80 66	79 64	73 60	81 60	82 60	80 64	83 62	83 60	80.7 62.6	
KAINALIU 73.2	MAX MIN	78 57	77 62	76 60	77 60	79 57	78 60	77 56	80 53	78 55	80 60	82 61	78 57	75 55	77 57	81 57	79 60	81 56	79 58	78 57	80 59	80 57	79 57	77 58	79 60	78 58	79 56	78 57	78 59	76 57	76 59	78.4 57.7		
KAMUELA 192.2	MAX MIN			76 50	68 57	74 47	72 48			75 44	72 49	73 51	75 45	72 44		77 43	72 56	65 54	66 55	67 57			75 48	69 56	66 58	70 56	67 56			74 49	73 44			
KAPOHO BEACH 93.11	MAX MIN	85 67	80 64	82 65	77 65	79 64	80 64	81 62	80 62	83 61	81 63	82 65	82 63	80 58	80 60	82 62	85 61	82 65	79 67	82 68	81 68	85 68	86 64	83 66	83 66	80 66	75 64	79 64	81 66	82 61	84 61	81.3 64.3		
KEAAU 92	MAX MIN		84 59		79 65	76 62	79 62			81 61	84 62	85 59	80 60	78 55		83 56	82 57	77 60	76 62	80 63			80 61	80 61	77 63	77 62	70 61			80 61	80 60			
KOHALA MISSION 175.1	MAX MIN	77 67	71 67	69 63	69 63	76 60	79 60	78 65	77 64	79 61	81 65	80 66	78 59	76 58	76 61	80 62	79 61	80 65	73 65	77 66	70 65	75 62	77 61	77 64	74 65	76 65	71 65	75 64	77 64	78 62	77 59	76.0 63.3		
KONA (KAILUA) 68.3	MAX MIN			82 68	80 68	82 68				83 65	82 65	83 67	83 66	82 66		83 66	85 58	84 66	80 67	82 66			83 66	82 68	83 69	83 66	82 67			82 66	81 68			
KULANI CAMP 79	MAX MIN	67 51	61 49	61 44	60 40	67 40	63 42	63 40	71 43	72 45	71 42	68 38	68 44	71 43	72 39	67 41	69 41	65 33	65 33	65 43	64 43	53 42	62 31	61 46	57 40	64 52	64 40	63 40	62 40	59 36	60 38	59 34	64.3 41.6	
MAUNA LOA SLOPE 085	MAX MIN	46 31	48 33	50 34	50 36	53 32	51 37	54 42	57 39	54 34	54 35	50 34	52 36	54 36	55 38	57 37	56 35	51 33	52 33	49 33	52 32	51 31	50 31	52 30	54 35	52 31	49 33	52 33	55 35	49 30	48 29	52 32	51.9 33.9	
MOUNTAIN VIEW 91	MAX MIN				80 59	69 56	75 56			79 52	80 55	81 56	76 54	74 51		80 50	81 52	72 54	72 59	76 59			77 54	76 56	69 58	72 58	66 56			75 55	76 53			
NAALEHU 14	MAX MIN	78 62	73 61	74 60	74 62	73 60	78 59	83 56	88 57	78 59	83 61	80 58	77 61	76 57	73 56	84 56	77 52	83 60	77 50	72 62	74 64	75 66	72 62	75 60	76 64	70 64	74 58	71 57	74 61	74 63	74 60	74 59	76.3 59.6	
ODKALA 223	MAX MIN	79 65	71 65	72 64	69 64	76 62	79 63	75 62	80 62	80 62	77 63	80 65	74 62	75 60	78 61	79 61	80 63	79 63	74 63	76 66	70 67	76 65	79 65	78 63	75 63	77 63	69 61	79 65	79 65	79 63	79 64	76.4 63.5		
OPIHIHALE 2 24.1	MAX MIN	77 60	74 56	76 58	79 57	82 57	77 54	79 54	78 54	79 57	81 60	77 54	72 55	80 55	80 57	82 60	76 56	72 56	78 54	80 57	80 54	82 59	76 57	80 59	77 56	79 54	77 56	79 54	79 56	76 54	77 54	77.8 56.1		
PAHALA 21	MAX MIN					81 60	81 61			83 59	81 60	81 61	81 60	79 59		84 58	83 63	85 53	79 56	81 60			82 60	81 61	77 63	79 61	75 57			80 57	79 59			
PUUKOHOLA HEIAU 98.1	MAX MIN	84 66	84 66	85 65	85 65	82 64	82 64	82 63	84 62	84 62	82 62	86 67	86 60	82 62	84 64	82 64	86 63	85 63	88 61	84 61	84 65	87 65	86 63	84 65	87 66	88 66	87 62	85 65	85 62	89 66	88 66	84.9 63.8		
SOUTH KONA 2.31	MAX MIN	77 54	75 56	71 56	73 57	72 53	73 58	78 55	79 51	83 53	81 53	83 57	74 53	72 53	74 51	76 51	76 55	77 48	78 51	78 61	75 55	75 56	76 57	73 59	75 54	75 51	75 51	74 55	75 52	74 54	75.8 54.1			
UPOLU POINT USCG 159.2	MAX MIN	81 68	74 70	73 67	75 67	80 68	80 67	80 69	78 69	81 65	80 69	81 73	82 64	82 65	80 70	80 67	81 67	82 69	80 68	78 69	79 69	81 67	82 70	81 69	80 69	80 68	79 67	79 67	80 69	83 67	79 65	79.7 67.8		

SEE REFERENCE NOTES FOLLOWING STATION INDEX

# DAILY TEMPERATURES

HAWAII AND PACIFIC  
JANUARY 1978

STATION		DAY OF MONTH																															AVERAGE
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
PACIFIC																																	
• • •																																	
EAST OF 180TH MERIDIAN																																	
CANTON ISLAND	MAX MIN	89 80	89 80	87 82	90 78	89 77	90 82	90 82	90 82	91 82	90 82	90 82	91 82	90 82	90 82	90 82	90 82	90 81	91 81	90 82	90 82	90 82	91 81	90 81	90 80	89 80	89 80	90 82	90 82	90 83	89.8 81.2		
JOHNSTON IS WSO AP	MAX MIN	82 75	79 72	80 76	81 77	80 76	80 69	78 70	79 73	81 75	82 76	82 75	83 77	82 77	81 75	81 74	80 73	78 73	80 75	79 72	80 74	81 72	81 73	80 75	80 75	80 74	81 75	80 75	80 74	81 75	80 76	80.4 74.4	
LEONE	MAX MIN	89 84	88 81	92 85	93 85	93 85	90 80	89 83	88 82	88 80	89 80	88 81	89 82	89 82	88 81	87 80	85 78	87 81	88 82	88 82	88 82	88 85	90 85	86 82	86 78	85 80	90 78	88 81	91 83	89 81	82 78	88 82	88.5 81.5
FRENCH FRIGATE SHOALS	MAX MIN	77 64	77 62	77 63	77 63	78 67	80 70	80 70	79 68	82 67	77 67	78 66	78 68	79 67	80 69	81 67	78 65	75 63	74 63	81 69	81 70	82 69	80 72	77 66	77 69	78 70	81 69	79 69	80 72	79 73	83 71	80 70	78.9 67.7
MIDWAY SAND ISLAND	MAX MIN																																
PAGO PAGO WSO AP	MAX MIN	87 78	87 74	88 79	88 78	88 77	87 75	83 74	86 72	85 74	85 73	86 73	86 74	85 77	80 80	86 75	86 74	86 75	87 74	85 75	86 76	86 75	84 76	85 76	85 76	83 75	87 76	85 75	88 80	87 80	83 75	86 76	86.0 75.8
• • •																																	
WESTERN PACIFIC ISL. NORTH OF 12 N																																	
ANDERSEN AFB GUAM	MAX MIN	83 77	83 76	81 74	80 76	82 76	82 76	83 77	81 76	83 74	82 76	81 75	80 74	79 72	82 72	82 75	81 76	80 74	81 73	81 76	80 75	81 75	81 72	79 73	80 74	80 73	79 73	78 72	80 73	80 74	80 74	80.8 74.4	
CLARK AFB LUZON	MAX MIN	90 70	86 70	84 72	84 72	84 68	86 66	84 70	86 70	84 72	88 73	82 70	84 68	88 68	86 72	88 73	90 70	86 72	90 70	88 73	84 72	88 68	81 66	84 66	88 66	90 70	90 70	88 72	88 70	86 70	88 70	86 70	86.5 70.0
GUAM NAS	MAX MIN																																
GUAM WSMO	MAX MIN	85 72	85 67	84 64	83 73	83 72	84 74	85 73	84 72	84 71	84 66	84 72	84 72	83 68	84 64	84 56	85 69	86 64	85 69	85 72	86 65	87 66	85 69	85 70	82 70	84 71	82 72	81 73	82 71	82 71	84 70	85 71	84.1 69.3
SAIPAN LORAN	MAX MIN																																
WAKE ISLAND WSO AP	MAX MIN	80 71	80 74	81 72	82 73	81 70	83 74	79 75	81 74	79 73	81 70	82 77	81 72	79 69	79 70	79 70	81 70	82 71	84 73	84 72	82 70	82 72	85 71	83 73	82 74	83 70	84 72	77 71	82 72	82 75	82 75	81 73	81.4 72.2
• • •																																	
CAROLINE AND MARSHALL ISLANDS																																	
ENIWETAK	MAX MIN																																
FALALOP I ULITHI ATOLL	MAX MIN																																
KAPINGAMARANGI ATOLL	MAX MIN	89 78	89 76	85 77	89 78	85 78	85 78		89 79	85 78		85 77	86 70	84 70	84 70	85 78	82 75		88 78	90 80	85 78	86 78	85 78	85 78	90 79	90 79	89 79	88 79		89 79	89 77	89 78	86.9 77.1
KOROR WSO	MAX MIN	87 76	89 78	88 76	89 75	89 73	88 75	87 75	83 75	84 73	87 74	87 73	87 77	88 76	87 73	87 76	87 77	87 76	87 75	87 76	87 76	88 77	87 76	88 75	88 75	87 75	86 76	90 75	88 74	85 75	88 75	87.3 75.3	
KWAJALEIN MISSILE RGN	MAX MIN	86 75	83 76	86 75	86 77	86 77	83 74	84 74	85 75	86 81	87 76	87 79	88 79	89 80	83 76	86 77	87 76	82 73	86 79	86 80	86 80	86 77	85 77	86 79	86 80	85 80	87 80	86 80	84 79	86 76	85 76	85.7 77.4	
LELE I KOSRAE	MAX MIN		91			90 76	83 74	80 74	85 77	87 74	87 80	86 77	88 70	90 73	89 73	86 75	88 71	90 79	87 71	89 75	88 74	89 75	90 80	90 76	89 75	87 77	93 75	88 75	91 72	86 74	89 70	90 70	88.1 74.6
MAJURO WSO AP	MAX MIN	86 78	85 76	87 75	86 74	86 75	83 75	84 74	86 74	87 74	87 79	86 80	85 77	86 75	87 78	87 76	86 76	86 77	86 77	87 78	87 78	85 75	86 75	87 75	85 75	86 77	87 78	86 76	86 76	87 78	86 78	86.0 76.3	
METALANIM	MAX MIN	85 78	85 77	84 77	84 77	87 74	87 74	83 76	89 77	82 74	86 72	86 72	83 72	83 75	83 76	84 76	84 77	85 77	84 79	85 80	84 77	84 77	85 80	85 77	84 75	83 75	82 75	84 79	83 77	84 74	85 74	84.3 76.1	
PONAPE WSO	MAX MIN	87 75	88 78	89 77	88 75	88 73	87 77	85 76	87 78	80 74	85 71	86 74	87 72	86 75	87 76	86 75	87 77	82 75	86 75	86 77	89 78	89 79	87 78	89 79	86 77	82 74	86 75	84 75	89 79	86 78	88 74	88 74	86.4 75.8
SATAWAN ATOLL	MAX MIN																																
TRUK, MOEN I. WSO AP	MAX MIN	86 80	86 76	86 78	86 76	86 76	87 75	87 79	87 77	87 78	87 75	86 76	86 77	86 75	86 79	86 75	82 73	83 76	87 77	85 78	89 79	86 80	87 79	87 76	87 78	85 76	81 74	85 75	86 77	86 77	85 76	85 78	85.8 76.8
WOLEAI ATOLL	MAX MIN																																
YAP WSO AP	MAX MIN	87 73	87 73	87 72	87 74	87 75	87 74	86 74	87 72	87 74	86 74	86 76	86 75	86 72	86 74	86 74	86 73	87 74	87 76	86 74	86 75	86 74	88 74	86 75	86 74	88 75	85 74	87 73	86 74	84 74	86 72	87 75	86.4 73.9



# EVAPORATION AND WIND

HAWAII AND PACIFIC  
JANUARY 1976

STATION	DAY OF MONTH																															TOTAL OR AVG.	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
HAWAII																																	
• • • ISLAND OF KAUAI																																	
LIHUE WSO 1020.1 AP	EVAP	.21	.04	.20	.11	.13	.13	.16	.12	.15	.18	.22	.24	.19	.23	■	.20	.18	.20	.24	.26	.30	.30	.29	.16	.18	.28	.28	.19	.09	.27	.21	5.94
	WIND	158	81	89	65	77	89	102	124	90	140	67	86	71	116	■	252	82	168	153	178	209	86	70	151	107	133	153	144	117	58	68	3486
	MAX	70	76	71	70	77	80	75	70	79	78	79	76	80	78	-	77	77	78	78	78	75	81	77	75	79	80	78	78	79	81	78	76.9
	MIN	59	59	56	55	57	55	55	59	59	61	57	50	53	59	-	63	52	58	61	52	58	59	58	60	60	60	59	59	60	54	58	57.5
• • • ISLAND OF OAHU																																	
HONOLULU OBSERV 702.2	EVAP	.12	.09	.15	.15	.26	.18	.18	.26	.25	.30	.22	.30	.30	.30	.21	.04	.09	.22	.25	.15	.30	.23	.30	.30	.27	.23	.30	.30	.40	.33	.30	7.28
	WIND	21	19	25	17	25	27	36	64	53	38	34	50	27	40	31	45	56	35	26	34	31	31	24	22	24	23	27	27	28	37	28	1005
	MAX	78	74	80	76	82	82	79	83	88	85	81	81	80	84	86	75	78	78	82	78	84	86	87	84	84	82	83	83	85	87	85	81.9
	MIN	65	62	60	57	57	59	61	67	66	67	64	60	56	56	58	56	57	56	55	58	61	62	61	61	62	62	61	62	65	61	61	60.5

SEE REFERENCE NOTES FOLLOWING STATION INDEX

# EVAPORATION AND WIND

HAWAII AND PACIFIC  
JANUARY 1978

STATION		DAY OF MONTH																															TOTAL OR AVG.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
PACIFIC																																	
■ ■ ■ EAST OF 180TH MERIDIAN																																	
JOHNSTON IS WSO AP	EVAP	.26	.72	.39	.51	.45	.40	.20	.36	.28	.19	.25	.25	.38	.21	.51	.49	.55	.46	.49	.27	.22	.42	.09	.37	.29	.27	.37	.27	.27	.30	.34	10.83
	WIND	209	304	180	246	210	92	93	101	112	129	152	191	192	129	72	240	350	289	394	181	247	211	224	240	253	251	228	243	190	211	165	6329
	MAX	85	78	80	85	83	83	85	85	85	88	88	89	84	85	87	82	76	81	74	84	85	82	82	81	80	85	82	84	83	85	85	83.3
	MIN	71	71	70	71	69	70	67	63	62	69	70	71	72	70	69	70	65	66	66	68	67	69	69	70	69	69	70	70	68	69	68	68.8
■ ■ ■ WESTERN PACIFIC ISL. NORTH OF 12 N																																	
GUAM WSMO	EVAP	.26	.26	.12	.13	.20	.30	.31	.30	.24	.30	.25	.29	.30	.30	.29	.28	.31	.31	.33	.18	.22	.18	.27	.09	.17	.17	.15	.21	.09	.26	.23	7.30
	WIND	147	81	68	99	125	141	219	174	131	104	83	120	139	160	164	211	179	186	145	71	77	90	97	133	105	143	142	132	98	107	130	4001
	MAX	87	88	86	87	86	87	85	86	84	86	89	87	84	82	84	86	88	87	88	89	92	85	88	84	89	85	84	85	86	89	88	86.5
	MIN	70	68	65	71	69	70	69	69	69	67	68	69	67	67	68	68	70	71	70	67	66	70	69	71	70	70	71	70	70	70	68	68.9

SEE REFERENCE NOTES FOLLOWING STATION INDEX

# STATION INDEX

HAWAII AND PACIFIC  
JANUARY 1978

STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES				OBSERVER
								TEMP.	PRECIP.	EVAP.	SPECIAL (SEE NOTES)	
HAWAII												
ISLAND OF KAUAI												
ALEXANDER RESV. 983	0140	02	KOLOA	2	21 57	159 32	1610				C	MCBRYOE SUGAR CO.
ANAHOLA 1114	A 0145	01	KAWAIIHAU	1	22 08	159 18	180		7A		C	LIHUE PLANTATION CO
BRYOESWOOD STA 985	A 0240	02	KOLOA	2	21 56	159 32	720		7A			MC BRYOE SUG CO LTO
EAST LAWA 934	A 0456	02	KOLOA	2	21 55	159 30	440		7A			MC BRYOE SUG CO LTO
ELEELE 927	A 0470	02	KOLOA	2	21 54	159 35	150		6A			MC BRYOE SUG CO LTO
HALAULA 1110	A 0935	01	KAWAIIHAU	1	22 07	159 19	253		7A			LIHUE PLTN CO LTO
HALENANAO 1006	A 1038	02	LIHUE	2	21 58	159 26	490		8A			LIHUE PLANTATION CO
HANAHANAPUNI 1055.2	1140	02	KAUAI	2	22 03	159 25	600				C	LIHUE PLANTATION CO LTO
HANAIEI TUNNEL 1053	A 1170	01	KAWAIIHAU	1	22 05	159 28	1218		MO			LIHUE PLTN CO LTO
HUKIPO 945	2161	03	WAIMEA	3	21 59	159 41	800		8A			KEKAHA SUGAR CO LTO
ILILIULA INTAKE 1050	A 2222	02	LIHUE	2	22 02	159 28	1050		VAR			LIHUE PLTN CO LTO
INTAKE WAINIHA PC 1086A	2227	01	HANAIEI	1	22 09	159 34	690		WI			MC BRYOE SUG CO LTO
KANALOHULUHULU 1075	3099	03	WAIMEA	3	22 08	159 40	3600	7A	7A		C	STATE DIVISION OF PARKS
KANEHA RESERVOIR 1092	A 3104	01	KAWAIIHAU	1	22 08	159 23	830		7A			LIHUE PLANTATION
KAPAA STABLES 1104	A 3159	01	KAWAIIHAU	1	22 05	159 20	175		7A		C	LIHUE PLTN CO LTO
KEALIA 1112	A 3982	01	KAWAIIHAU	1	22 06	159 19	9		7A			LIHUE PLTN CO LTO
KEKAHA 944	4272	03	WAIMEA	3	21 58	159 43	9		8A		C	KEKAHA SUGAR CO LTO
KILAUEA 1134	A 4561	01	HANAIEI	1	22 13	159 25	320		7A		C	NICK RAPOZO
KILAUEA POINT 1133	4568	01	HANAIEI	1	22 14	159 24	180	7A	7A			MRS ELIZABETH MACIOLEK
KOLO 1033	4735	03	WAIMEA	3	22 04	159 46	36		7A			KEKAHA SUGAR CO LTO
KOLOA 936	A 4742	02	KOLOA	2	21 55	159 28	240		8A			MCBRYOE SUGAR CO
KOLOA LN (MAK) 940.1	4748	01	KAUAI	2	21 52	159 27	52	7A	7A			AUSCG LORAN STATION
KOLOA MAUKA 994	A 4750	02	KOLOA	2	21 57	159 29	640		7A			MCBRYOE SUGAR COMPANY
KUKUIULA 935	A 4950	02	KOLOA	2	21 54	159 30	100		6A			MC BRYOE SUG CO LTO
LIHUE VARIETY ST 10621A	A 5560	02	LIHUE	2	22 01	159 23	380		7A		C	LIHUE PLANTATION CO LTO
LIHUE 1020	A 5575	02	LIHUE	2	21 59	159 22	207		7A			LIHUE PLTN CO LTO
LIHUE W50 1020.1 AP	R 5580	02	LIHUE	2	21 59	159 21	103	MIO	MIO	7AC	J	NATL WEATHER SERVICE
MAKAWELI 965	A 5864	03	WAIMEA	3	21 55	159 38	140		7A			OLOKELE SUGAR CO
MANA 1026	6082	03	WAIMEA	3	22 02	159 46	20	8A	8A			KEKAHA SUGAR CO LTO
MOHIHI UPR CROSS 1083	A 6433	01	WAIMEA	3	22 07	159 36	3500		MIO			U S GEO SURVEY
MOLOAA 1145	A 6529	01	KAWAIIHAU	1	22 11	159 20	330		7A			THEODORE JAVELLANA JR
MOUNT WAIALEALE 1047	R 6565	03	WAIMEA	2	22 04	159 30	5148		MIO			U. S. GEO. SURVEY
NIU RIGGE 1035	6850	03	WAIMEA	3	22 02	159 44	1250		6A			KEKAHA SUGAR CO LTO
N WAILUA OITCH 1051	A 6888	02	LIHUE	2	22 04	159 28	1110		7A			LIHUE PLTN CO LTO
N WAILUA RIVER 1055	A 6893	02	KIHUE	2	22 04	159 26	650		MO			LIHUE PLTN CO LTO
PH WAINIHA 1115	8155	01	HANAIEI	1	22 12	159 34	101		6A		C	MC BRYOE SUG CO LTO
PRINCEVILLE RANCH 1117	8165	01	HANAIEI	1	22 13	159 29	295		9A		C	PRINCEVILLE RANCH INC
PUEHU RIGGE 1040	8205	03	WAIMEA	3	22 01	159 42	1660		8A			KEKAHA SUGAR CO LTO
PUHI 1013	A 8217	02	LIHUE	2	21 58	159 24	329		8A			LIHUE PLANTATION CO
WAHIAWA 930	A 8941	02	KOLOA	2	21 54	159 34	215		7A			MC BRYOE SUG CO LTO
WAIHI LOWER 1054	8958	02	LIHUE	2	22 01	159 27	565	6A	6A			LIHUE PLTN CO LTO
WAIHI UPPER 1052	8966	02	LIHUE	2	22 01	159 28	780		6A			LIHUE PLTN CO LTO
WAIKAWA 943	9253	03	WAIMEA	3	21 59	159 43	10		8A			KEKAHA SUGAR CO LTO
WAILUA KAI 1065	A 9467	02	LIHUE	2	22 02	159 21	50		7A			LIHUE PLANTATION
WAIMEA 947	9629	03	WAIMEA	3	21 58	159 41	20		8A			KEKAHA SUGAR CO.
WEST LAWA 931	A 9955	02	KOLOA	2	21 54	159 31	210		6A			MC BRYOE SUG CO LTO
ISLAND OF OAHU												
AHIIMANU LOOP 839.12	0055	01	KOOLAUPOKO	1	21 26	157 51	320				C	OON MITCHELL
ALOHA STADIUM-HALAWA	0172	03	OAHU	3	21 23	157 56	40	8A	8A			ALOHA STADIUM
BERETANIA PUMPING STA	0211	02	HONOLULU	2	21 19	157 51	20		9A			BOARD OF WTR SUPPLY
B Y U LAIE 903.1	0240	01	KOOLAUPOKO	1	21 39	157 56	20	12M	12M			B Y U-HAWAII CAMPUS
CAMPBELL INO PK 702.5	0248	02	OAHU	3	21 19	158 07	10		8A			CHEVRON U S A INC
CAMP 84 807	A 0300	03	EWA	3	21 26	158 04	760		6A		C	DEL MONTE CORPORATION
COCONUT ISLAND 840.1	0350	01	KOOLAUPOKO	1	21 26	157 47	15		8A			H INST MARINE BIOLOGY
ODWSETT HIGHL05 780.8	0438	02	HONOLULU	2	21 21	157 50	565				C	J.L. BANNING
EWA PLANTATION 741	0507	03	EWA	3	21 21	158 02	5	9A	7A			OAHU SUGAR COMPANY
HALAWA SHAFT 771.2	0964	02	HONOLULU	2	21 23	157 54	170				C	BOARD OF WATER SUPPLY
HAWAII KAI CRSE 724.19												
HELEMANO INTAKE 881	A 1384	05	WAILUA	5	21 33	158 00	1274		WI		C	HAWAII KAI GOLF COURSE
HOKULOA 725.2	A 1540	03	EWA	3	21 24	158 06	2220				C	WAILUA SUGAR CO. INC.
HONOLULU 08SERV 702.2	1918	03	EWA	3	21 19	158 00	5		9A	9A		H. V. VON HOLT
HONOLULU W50 703 AP	1919	02	HONOLULU	2	21 20	157 55	7	MIO	MIO		C	NATIONAL WEATHER SERV
KAAIAKEI 724.6	2269	02	HONOLULU	2	21 18	157 43	10				C	NATL WEATHER SERVICE
KAENA POINT 841.3	2410	04	WAILUA	4	21 34	158 15	1240		9A			MRS. MILLIE ZAPATA
KAHANA 883	A 2462	01	KOOLAUOLA	1	21 31	157 54	800		WI			U S AIR FORCE
												WAILAHOLE WTR CO LTO

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ISLAND OF OAHU												
KAHUKU 912	A	2570	01	KOOLAULOA	1 21 42	157 59	15				C	KIULIMA HOTEL
KAILUA FIRE STA 791.3		2683	01	KOOLAUPOKO	1 21 24	157 45	10		8A		C	KAILUA FIRE STATION
KALIHI RES SITE 777	R	2960	02	HONOLULU	2 21 23	157 50	910		M10			BOARD OF WTR SUPPLY
KANEOME MAUKA 781		3113	01	KOOLAUPOKO	1 21 25	157 49	325	7A	7A			STATE HOSPITAL
KAPALAMA 773	A	3268	02	HONOLULU	2 21 21	157 52	614		8A			KAMEHAMEHA SCHOOLS
KAWAIHAPAI 841	A	3734	05	WAIALUA	5 21 35	158 11	40		7A			WAIALUA SUGAR CO. INC.
KEMOO CAMP 8 855	A	4318	05	WAIALUA	5 21 33	158 05	725		7A			WAIALUA SUGAR CO. INC.
KOOLAU OAM 833	A	4766	05	WAIHAWA	5 21 30	157 58	1160		8A			C & F OFFICER HEOG
LULUKU 781.7		5655	01	KOOLAUPOKO	1 21 24	157 49	240				C	NATIONAL WEATHER SERV
MAKAHA PUMP 800.2	A	5782	04	OAHU	4 21 29	158 12	400		8A		C	CAPITAL INVESTMENT CO.
MAKAKILO 730.1		5789	03	OAHU	3 21 21	158 06	300		6A			NEAL AORMS
MANOA LYON ARBORETUM		6128	02	OAHU	2 21 20	157 48	500	8A	8A			LYON ARBORETUM
MANOA TUNNEL 2 716	R	6130	02	HONOLULU	2 21 20	157 48	650		M10			BOARD OF WTR SUPPLY
MAUNAWILI 787.1		6222	01	KOOLAUPOKO	1 21 21	157 46	395				C	EXP. STA. H.S.P.A.
MOANALUA 770		6395	02	HONOLULU	2 21 21	157 54	20		9A			JOHN A ROXBURGH
MOUNT KAALA 844		6553	04	WAIANAE	4 21 31	158 09	4015				C	FEDERAL AVIATION ADM
NUUANU RES 4 783		6928	02	HONOLULU	2 21 21	157 49	1048		M10			BOARD OF WTR SUPPLY
NUUANU RESERV 5 775	A	6933	02	HONOLULU	2 21 21	157 50	410		WI			BOARD OF WTR SUPPLY
OPAEULA 870	A	7150	05	WAIALUA	5 21 34	158 02	1060	7A	7A		C	WAIALUA SUGAR CO. INC.
PAIKO OR 723.4		7540	02	HONOLULU	2 21 17	157 44	10		6P			O L GRU88
PAL1 GOLF COURSE 788.1		7656	01	OAHU	1 21 23	157 47	480		10A			CC DEPT PKS RECREATION
PALOLO VALLEY 718	R	7664	02	HONOLULU	2 21 20	157 46	995		M10			BOARD OF WTR SUPPLY
PAUOA FLATS 784	R	7810	02	HONOLULU	2 21 21	157 48	1640		M10			BOARD OF WTR SUPPLY
PEARL COUNTRY CL 760.2		7942	03	OAHU	3 21 23	157 56	120				C	PEARL COUNTRY CLB OF HA
PUNALUU PUMP 905.2		8314	01	KOOLAULOA	1 21 35	157 54	20				C	MRS DAVID DELAO
PUNCHBOWL CRATER 709	A	8316	02	HONOLULU	2 21 19	157 51	360		8A			NAT MEM CEMETERY
PUPUKA HEIGHTS 896.4		8342	01	WAIALUA	1 21 39	158 02	900				C	JACK N. WHEELER
PUU MANAWAHUA 725.6		8500	03	OAHU	3 21 23	158 05	2080		8A			HUGH HAMILTON
TANTALUS 2 780.5		8738	02	HONOLULU	2 21 20	157 50	1325		7A			R. E. WHITE
UNIV OF HAWAII 713	A	8815	02	HONOLULU	2 21 18	157 49	79		8A			DEPT OF GEOSCIENCE
UPPER WAIHAWA 874.3		8838	05	OAHU	5 21 31	158 01	1115		6A			CLOSED 12/31/77
WAIHAWA OAM 863	A	8945	05	WAIHAWA	5 21 30	158 03	854		7A			WAIALUA SUGAR CO. INC.
WAIHOLE 837	A	8964	01	KOOLAUPOKO	1 21 28	157 53	745		8A		C	WAIHOLE WTR CO LTO
WAIALAE KAHALA 715		9185	02	HONOLULU	2 21 17	157 47	40		7A			SPENCER TINKER
WAIALEE 896.3		9190	01	KOOLAULOA	1 21 41	158 02	33	8A	8A			WAIALEE LIVESK RES FARM
WAIALUA 847	A	9195	05	WAIALUA	5 21 35	158 07	32	7A	7A		C	WAIALUA SUGAR CO. INC.
WAIANAE 798.2	A	9231	04	WAIANAE	4 21 27	158 11	10		7A			8EN MAYES
WAIKAWA 836	A	9261	03	EWA	3 21 28	157 56	800		MO			WAIHOLE WTR CO LTO
WAIKANE 885	A	9340	01	KOOLAUPOKO	1 21 30	157 53	760		WI			WAIHOLE WTR CO LTO
WAIKIKI 717.2		9397	02	HONOLULU	2 21 16	157 49	10	8A	8A			HONOLULU ZOO
WAILUPE VLY SCH 723.6		9500	02	HONOLULU	2 21 18	157 45	180				C	WAILUPE VALLEY SCHOOL
WAIMANALO EXP FARM		9523	01	KOOLAUPOKO	1 21 20	157 43	60	7A	7A			WAIMANALO EXP FARM
WAIMANALO NONOKI 795.2		9534	01	OAHU	1 21 20	157 43	120				C	WAIMANALO EXP FARM
WAIMER 892	A	9593	05	WAIALUA	5 21 38	158 04	330		7A		C	WAIALUA SUGAR CO INC
WAIPIAHU 750	A	9738	03	EWA	3 21 23	158 01	59		8A			WAIHOLE WATER COMPANY
WILHELMINA RISE 721	R	9980	02	HONOLULU	2 21 18	157 47	1100		M10			BOARD OF WTR SUPPLY
ISLAND OF MOLOKAI												
KALAUAPAPA 563	A	2896	01	MOLOKAI	1 21 12	156 59	30		8A			KALAUAPAPA SETTLEMENT
KAUNAKAKAI 536		3541	01	MOLOKAI	1 21 06	157 01	12		7A			MOLOKAI RANCH LTO
KAUNAKAKAI MAUKA 536.5		3547	01	MOLOKAI	1 21 06	157 01	70				C	MOLOKAI GENERAL HOSP.
KEONELELE PENS 551	A	4394	01	MOLOKAI	1 21 12	157 12	560		VAR			MOLOKAI RANCH, LTO.
KUALAPUU 534	A	4778	01	MOLOKAI	1 21 09	157 02	825		7A		C	OEL MONTE CORPORATION
MAUNALO 511	A	6190	01	MOLOKAI	1 21 08	157 13	1070		9A		C	MOLOKAI RANCH COMPANY
MOLOKAI AP 524		6534	01	MOLOKAI	1 21 09	157 06	450	8A	8A			ALOHA AIRLINES
PUU O HOKU RANCH 542.1		8549	01	MOLOKAI	1 21 09	156 44	700		6A		C	CHARLIE APIA (FOREMAN)
WAIKOLU 540	A	9404	01	MOLOKAI	1 21 08	156 55	3550		WI			MOLOKAI RANCH COMPANY
ISLAND OF LANAI												
KANEPUU 690	A	3130	01	LAHAINA	1 20 52	157 00	1650		WI			U S O A
KAUNALAPAU HAR80R 658		3461	01	LAHAINA	1 20 47	157 00	30		8A		C	OOLE COMPANY
LANAI AIRPORT 656		5275	01	LAHAINA	1 20 48	156 57	1300	8A	8A			HAWAIIAN AIR
LANAI CITY 672	A	5286	01	LAHAINA	1 20 50	156 55	1620	7A	7A		C	OOLE COMPANY
LANAIHALE 684	A	5301	01	LAHAINA	1 20 49	156 53	3370		WI			U S O A
NAHANA 694	A	5704	01	LAHAINA	1 20 52	156 55	1430		MO			U S O A
MALAEUA 676	A	6012	01	LAHAINA	1 20 46	156 55	1150		WI			U S O A
WAIKAEKUA 685	A	9021	01	LAHAINA	1 20 47	156 52	2000		WM			KOELE COMPANY
ISLAND OF MAUI												
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AUWAHI 252	A	0175	02	HANA	2 20 37	156 20	2060		VAR			ULUPALAKUA RANCH



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ISLAND OF MAUI												
HAELAAU 477	A 0790	04	LAHAINA	4	20 57	156 36	2980		MO			MAUI LAND-PINEAPPLE CO U OF H AGRIC EXP STA HALEAKALA RANCH CO HALEAKALA NAT PARK MAUI LAND-PINEAPPLE CO HAWAIIAN COM & SUG CO HARRY HASEGAWA ROYAL HAWAIIAN AIRLINES HALEAKALA NATL PARK RGS MAUI LAND-PINEAPPLE CO
HALEAKALA 8 E 5 434	A 0995	01	MAKAWAO	1	20 51	156 18	2100		7A			
HALEAKALA RANCH 432	A 0999	01	MAKAWAO	1	20 50	156 19	1850		8A			
HALEAKALA R5 338	1004	02	MAKAWAO	2	20 46	156 15	7030	8A	8A			
HALIIMAILE 423	A 1075	01	MAKAWAO	1	20 52	156 21	1070		3A			
HAMAKUPOKO 485	1086	01	MAKAWAO	1	20 55	156 21	320		5A			
HANA 354	A 1122	01	HANA	1	20 45	155 59	120		8A		C	
HANA AIRPORT 355	1125	01	HANA	1	20 48	156 01	61	8A	8A			
HOLUA CABIN 259.5	A 1552	02	MAKAWAO	2	20 45	156 13	6930		MO			
HONOKOHU 480	A 1882	04	LAHAINA	4	20 58	156 36	870		MO			
HONOKOHUA 493	A 1887	04	LAHAINA	4	21 00	156 39	135		6A			MAUI LAND-PINEAPPLE CO MAUI LAND-PINEAPPLE CO HALEAKALA RANCH CO STATE DIVISION OF PARKS AMFAC PROPERTIES INC PIONEER MILL CO LTD NATL WEATHER SERVICE E MAUI IRR CO LTD E MAUI IRR CO LTD PIONEER MILL CO LTD
HONOLUA FIELD 49 494	A 1914	04	LAHAINA	4	21 01	156 38	125		MO			
HONOMANU GULCH 341	A 1935	01	MAKAWAO	1	20 47	156 14	6280		MO			
IAO NEEDLE 387.2	2208	03	WAILUKU	3	20 53	156 33	1080				C	
KAAHAPALI AP 453.1	2307	04	LAHAINA	4	20 56	156 42	8	8A	8A			
KAHOMA INTAKE 374	A 2552	04	LAHAINA	4	20 54	156 38	2000		WI			
KAHULUI W50 398 AP	R 2572	03	WAILUKU	3	20 54	156 26	48	MID	MID		C J	
KAILIILI 436	A 2630	01	MAKAWAO	1	20 51	156 16	2520		MO			
KAILUA 446	2679	01	MAKAWAO	1	20 54	156 13	700	7A	7A			
KAUULA INTAKE 375	A 3433	04	LAHAINA	4	20 53	156 38	1585		WI			
KAUPO RANCH HOUSE 259	3576	02	HANA	2	20 39	156 08	1020				C	KAUPO RANCH HAWAIIAN COM & SUG CO E MAUI IRR CO LTD ALLEN L CORELL HAWAIIAN COM & SUG CO HANA RANCH-KIPAHULU SEC MAUI LAND-PINEAPPLE CO KULA SANATORIUM PIONEER MILL CO LTD PIONEER MILL CO LTD
KEAHUA 410	3910	03	MAKAWAO	3	20 52	156 23	480		5A			
KEANAE 346	A 4091	01	HANA	1	20 50	156 10	980		MO			
KEAWAKAPU BEACH 260.2	4193	02	MAKAWAO	2	20 42	156 27	20	8A	8A		C	
KIHEI 311	4489	03	WAILUKU	3	20 47	156 27	90		7A			
KIPAHULU 258	4634	01	HANA	1	20 39	156 04	260		7A			
KUKUI 380	A 4887	04	LAHAINA	4	20 54	156 35	5788		MO			
KULA SANATORIUM 267	5006	02	MAKAWAO	2	20 42	156 22	3004	7A	7A			
LAHAINA 361	5177	04	LAHAINA	4	20 53	156 41	45	7A	7A		C	
LAUNIUPOKO INTAKE 376	A 5404	04	LAHAINA	4	20 51	156 37	1280		WI			
LAUNIUPOKO VILLAGE 372A	5408	04	LAHAINA	4	20 51	156 39	220		7A			PIONEER MILL CO LTD E MAUI IRR CO LTD PIONEER MILL CO LTD MAUI LAND-PINEAPPLE CO MAUI LAND-PINEAPPLE CO EAST MAUI IRRIGATION CO PIONEER MILL CO LTD E MAUI IRR CO LTD HAWAIIAN COM & SUG CO KAUPO RANCH CO.
LUPI UPPER 442	A 5665	01	MAKAWAO	1	20 53	156 15	1240		MO			
MAHINAHINA 466	A 5715	04	LAHAINA	4	20 57	156 40	715		7A			
MOKUPEA 475	A 6521	04	LAHAINA	4	20 59	156 37	1290		MO			
NAKALELE FIELD 60 497	A 6645	04	LAHAINA	4	21 02	156 36	340		VAR			
OLINDA 332	A 7040	01	MAKAWAO	1	20 48	156 17	4127		VAR			
OWALU 296.1	7059	04	LAHAINA	4	20 49	156 37	20		7A			
PAAKEA 350	7194	01	HANA	1	20 49	156 07	1260		VAR		C	
PAIA 406	7566	01	WAILUKU	1	20 55	156 23	170		5A			
PANILEIHULU 259.2	A 7674	02	HANA	2	20 41	156 08	3570		MO			
PEAHI 488.6	7952	01	MAUI	1	20 54	156 17	830		WI		C	BERNARD RUPLINGER WAILUKU SUGAR CO STATE DIV OF FORESTRY E MAUI IRR CO LTD HAWAIIAN COM & SUG CO EAST MAUI IRRIGATION CO HAWAIIAN COM & SUG CO KAONOULU RANCH UH MAUI AGRI RESCH CNTR HALEAKALA RANCH CO
POHAKA BRIDGE 307.2	A 8060	03	WAILUKU	3	20 49	156 31	167		6A			
POLIPOLI SPRINGS 267.2A	8070	02	MAKAWAO	2	20 41	156 20	6150		VAR			
PUOHOKAMOA 2 343	A 8336	01	HANA	1	20 50	156 13	2980		MO			
PUUNENE 396	8543	03	WAILUKU	3	20 53	156 27	60		7A			
PUU PAKI 352	A 8553	01	HANA	1	20 46	156 03	2160				5	
SPRECKELSVILLE 400.2	8688	03	WAILUKU	3	20 54	156 25	85		8A			
TWIN GATES 261.3	A 8742	03	MAKAWAO	3	20 46	156 23	1310		VAR			
UH AGRI RES CNTR 324.5	8743	02	MAUI	2	20 46	156 20	3050				C	
UKULELE 333	A 8744	01	MAKAWAO	1	20 48	156 15	5230		MO			
UKUMEHAME 301	A 8750	04	LAHAINA	4	20 48	156 35	75		7A			PIONEER MILL CO LTD ULUPALAKUA RCH CO LTD PIONEER MILL CO LTD WAILUKU SUGAR CO WAILUKU SUGAR CO E MAUI IRR CO LTD EAST MAUI IRRIGATION CO WAILUKU SUGAR CO EAST MAUI IRRIGATION CO WAILUKU SUGAR COMPANY
ULUPALAKUA RANCH 250	8760	02	MAKAWAO	2	20 39	156 24	1900				C	
WAHIKULI 364	A 8955	04	LAHAINA	4	20 54	156 40	580		8A			
WAIHEU CAMP 484	A 9275	03	WAILUKU	3	20 55	156 31	320		6A			
WAIHEE VALLEY 482	A 9315	04	WAILUKU	4	20 57	156 32	300		6A			
WAIKAMOI 449	A 9332	01	HANA	1	20 52	156 12	1200		MO			
WAIKAMOI DAM 336	A 9335	01	MAKAWAO	1	20 49	156 14	4320		VAR		C	
WAIKAPU 390	A 9376	03	WAILUKU	3	20 51	156 31	370		6A			
WAILUA IKI 348	A 9460	01	HANA	1	20 48	156 09	2630				5	
WAILUKU 386	A 9484	03	WAILUKU	3	20 54	156 30	180	7A	7A			
WAIOPAI RANCH 256	A 9765	02	HANA	2	20 38	156 12	220		OC			HALEAKALA RANCH CO
ISLAND OF HAWAII												
AHUA UMI 75	A 0040	05	N KONA	5	19 38	155 47	5220		MO			W.H. GREENWELL RANCH NAT HISTORICAL PARK HONOKAA SUGAR CO MAUNA KEA SUGAR CO
CITY OF REFUGE 27.4	0344	04	S KONA	4	19 25	155 55	15		9A			
HAINA 214	0840	01	HAMAKUA	1	20 06	155 28	461		8A			
HAKALAU 142	0905	02	S HILO	2	19 54	155 08	105		7A			

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ISLAND OF HAWAII												
HALEMAUMAU 52	A	1033	03	KAU	3 19 24	155 17	3648		MO			HAWAII NAT PARK
HALEPOHAKU 111	A	1065	02	HAMAKUA	2 19 46	155 28	9220		3P			MAUNA KEA OBSERVATORY
HA'S FARM 85.3		1270	02	HAWAII	2 19 40	155 06	580		8A			RICHARD HA JR
HAWAII VOLCNS NP HO 54		1303	02	KAU	2 19 26	155 16	3971	8A	8A		C	HA VOLCANOES NAT PK HOS
HAWI 168	A	1339	01	N KOHALA	1 20 14	155 50	580		6A		C	K L 80NO
HILO COUNTRY CLUB 86.6		1487	02	HAWAII	2 19 41	155 10	1600		7A		C	REX WILLS 11
HILO WSO AP 87	R	1492	02	S HILO	2 19 43	155 04	36	MIO	MIO		C	NATL WEATHER SERVICE
HOLUALOA 70	A	1557	04	N KONA	4 19 38	155 55	3220		MO			STATE DIV OF FORESTRY
HOLUALOA BEACH 68	A	1562	04	N KONA	4 19 37	155 59	14		7A			CAPT COOK CATTLE CO
HONAUHOU 27		1665	04	S KONA	4 19 27	155 53	1089		7A			SHIGETO L TANAKA
HONOHINA 137		1701	02	N HILO	2 19 56	155 09	300		7A			MAUNA KEA SUGAR CO
HONOMU MAUKA 138		1960	02	S HILO	2 19 51	155 09	1100		7A		C	MAUNA KEA SUGAR CO
HONUAULA 71	A	2047	04	N KONA	4 19 40	155 53	6250		MO			STATE DIV OF FORESTRY
HUALALAI 72	A	2151	04	N KONA	4 19 42	155 52	8190		MO			STATE DIV OF FORESTRY
HUEHUE 92.1	A	2156	04	N KONA	4 19 45	155 59	1960		6A			HUEHUE RANCH
KAAALA 1K1 12	A	2249	03	KAU	3 19 08	155 34	1340		WI			KAU SUGAR COMPANY, INC
KAAWALO 29	A	2327	04	SOUTH KONA	4 19 30	155 55	1340		8A			CAPT COOK INVESTMENT CO
KAHIAWAI MAUKA 3.8		2512	03	KAU	3 19 08	155 46	4120				C	RUSSELL P. SMITH
KAHUA RCH HTRS 176.3		2600	01	HAWAII	1 20 08	155 48	3240				C	KAHUA RANCH COMPANY
KAINALIU 73.2		2751	04	N KONA	4 19 32	155 56	1500	7A	7A			KONA EXPERIMENT STA
KALAOA 69.22		2887	04	HAWAII	4 19 44	155 59	2000		8A			FLOYD W MC COY
KALAPANA 1 67.8		2894	02	S HILO	2 19 20	155 02	10		VAR			HAWAII VOLCANOES NAT PK
KAMAOKA 2 S	A	3048	03	KAU	3 19 02	155 40	1375		WI			PARKER RCH-KAPAPALA DIV
KAMUELA 192.2		3077	01	S KOHALA	1 20 01	155 40	2670	6A	6A			PARKER RANCH
KAPAPALA RANCH 36	A	3300	03	KAU	3 19 17	155 27	2140		6A			PARKER RCH-KAPAPALA DIV
KAPOHO BEACH 93.11		3368	02	HAWAII	1 19 30	154 49	10	8A	8A			H E MC NICHOLS
KAPOHO LANDING 93.5	A	3369	02	PUNA	2 19 30	154 52	290		VAR			DEPT OF PUBLIC WORKS
KAWAINUI LOWER 193	A	3770	01	HAMAKUA	1 20 05	155 39	1080		WI			HONOKAA SUGAR CO
KEAAU 92		3872	02	PUNA	2 19 38	155 02	285	8A	8A			PUNA SUGAR CO
KEAIIWA CAMP 22.1		3925	03	KAU	3 19 14	155 29	1700				C	KAU SUGAR COMPANY, INC
KEALAKEKUA 26.2		3977	04	S KONA	4 19 30	155 55	1450				C	HERBERT KANE
KEANAKOLU CAMP 124.2		4098	02	HAMAKUA	2 19 55	155 21	5280				C	STATE DIV OF FORESTRY
KIOLAKAA A & F 6	A	4625	03	KAU	3 19 04	155 38	1925		MO			STATE DIV OF FORESTRY
KIPA 89.2	A	4632	02	S HILO	2 19 44	155 09	1490		WI			MAUNA KEA SUGAR CO.
KOHALA MISSION 175.1		4680	01	N KOHALA	1 20 14	155 48	537	7A	7A			K. LYMAN 80NO
KOIAWE LOWER 196	A	4685	01	HAMAKUA	1 20 05	155 38	720		WI			HONOKAA SUGAR CO
KONA (KAILUA) 68.3	A	4764	04	N KONA	4 19 39	156 00	30	8A	8A		C	CHEVRON USA
KONA VILLAGE 93.8		4765	04	N KONA	4 19 50	155 59	20		8A			KONA VILLAGE RESORT HTL
KUKAIAU 222		4815	01	HAMAKUA	1 20 02	155 21	840		6A			LAUPAHOEHOE SUGAR CO
KUKUIHAELE HIC 199		4928	01	HAMAKUA	1 20 07	155 35	980		6A			HONOKAA SUGAR CO
KUKUIHAELE MILL 206	A	4938	01	HAMAKUM	1 20 08	155 34	300		6A			HONOKAA SUGAR CO
KULANI CAMP 79		5011	02	S HILO	2 19 33	155 18	5170	8A	8A			ST DEPT OF SOCIAL SER
KULANI MAUKA 76	A	5018	05	N HILO	5 19 35	155 27	8300		WI			MAUNA LOA OBS.
KULANI SCHOOL SITE 78	A	5021	02	S HILO	2 19 35	155 20	5735		WI			ST DEPT OF SOCIAL SER
LALAMILO FLO OFF 191.1		5260	01	S KOHALA	1 20 01	155 41	2615				C	STATE DEPT OF L&N RES
LANIHAU 68.2		5330	04	N KONA	4 19 40	155 58	1530		7A			KONA EXPERIMENT STATION
LAVA TREE PARK 66.1		5460	02	PUNA	2 19 29	154 54	650				C	STATE DIV OF PARKS
MAKAHALAU 103		5751	02	HAWAII	1 19 59	155 33	3820		6A			PARKER RANCH
MANUKA 2	A	6134	03	KAU	3 19 07	155 50	1760		WI			STATE DIVISION OF PARKS
MAUNA KEA OBS 111.2		6183	02	HAWAII	2 19 49	155 28	13770		7P			MAUNA KEA OBSERVATORY
MAUNA LOA SLOPE OBS		6198	05	HAMAKUA	5 19 32	155 35	11150	MIO	MIO			MAUNA LOA OBSERVATORY
MIDDLE HOLUALOA 68.1	A	6268	04	N KONA	4 19 37	155 58	500		7A			CAPT COOK CATTLE CO
MIDDLE PEN 147.1	A	6270	01	N KOHALA	1 20 06	155 50	1380		VAR			KAHUA RANCH
MOAULA 18	A	6407	03	KAU	3 19 11	155 30	600		WI			PARKER RCH-KAPAPALA DIV
MOUNTAIN VIEW 91		6552	02	PUNA	2 19 33	155 07	1530	6A	6A			PUNA SUGAR CO
NAALEHU 14	A	6588	03	KAU	3 19 04	155 35	800	8A	8A			KAU SUGAR COMPANY
NAPOOPOO 28	A	6697	04	S KONA	4 19 28	155 55	395		7A			KONA EXPERIMENT STA
OOKALA 223		7131	02	N HILO	2 20 01	155 17	430	7A	7A			LAUPAHOEHOE SUGAR CO
OPIHIHALE 2 24.1		7166	04	S KONA	4 19 16	155 53	1270	7A	7A			MRS LORMA TRUMAN
ORCHIO LAND EST 91.5	A	7185	02	PUNA	2 19 34	155 00	445		VAR			BOARD OF WATER SUPPLY
PAAUHAU 217		7204	01	HAMAKUA	1 20 05	155 26	415		8A		C	HONOKAA SUGAR COMPANY
PAAUILO 221		7312	01	HAMAKUA	1 20 03	155 22	800		7A			LAUPAHOEHOE SUGAR CO
PAHALA 21	A	7421	03	KAU	3 19 12	155 29	870	8A	6A			KAU SUGAR COMPANY, INC
PAHOA 65		7457	02	PUNA	2 19 30	154 57	670		6A			PUN SUGAR COMPANY
PAKAO 37	A	7643	03	KAU	3 19 22	155 28	5000		MO			PARKER RCH-KAPAPALA DIV
PAPAIKOU 144.1		7711	02	S HILO	2 19 47	155 06	260		7A			MAUNA KEA SUGAR CO
PAPAIKOU MAUKA 140.1		7721	02	S HILO	2 19 47	155 08	1270		7A			MAUNA KEA SUGAR CO

SEE REFERENCE NOTES FOLLOWING STATION INDEX

## STATION INDEX

HAWAII AND PACIFIC  
JANUARY 1978

STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE :	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES				OBSERVER
								TEMP.	PRECIP.	EVAP.	SPECIAL (SEE NOTES)	
ISLAND OF HAWAII												
PIIHONUA 89	A 8051	02	S HILO	2	19 44	155 10	1730		MO			STATE DIV OF FORESTRY STATE DIVISION OF PARKS SUPT PUU HEIAU-NHS W.H. GREENWELL RANCH PUU WAAWAA RANCH CO BOARD OF WTR SUPPLY MRS CAROLYN CARLSON PARKER RCH-KAPAPALA DIV U S COAST GUARD SHINICHI KANESHIRO
POHAKULOA 107	A 8063	02	HAMAKUA	2	19 45	155 32	6511		WI		C	
PUUKOHOLA HEIAU 98.1	8422	05	HAWAII	5	20 02	155 50	140	8A	8A			
PUU LEHUA 73	A 8460	04	N KONA	4	19 34	155 49	4880		MO			
PUU WAAWAA 94.1	A 8555	05	N KONA	5	19 47	155 51	2520		7A		C	
SADDLE ROAD 1 84	A 8590	02	S HILO	2	19 42	155 12	2340		WM			
SOUTH KONA 2.31	8650	03	HAWAII	3	19 06	155 45	2650	8A	8A			
SOUTH POINT CORRAL 3	A 8675	03	KAU	3	18 57	155 41	500		WI			
UPOLU POINT USCG 159.2	8830	01	N KOHALA	1	20 15	155 53	61	8A	2P			
WAIKEA SCO 88.2	9025	02	S HILO	2	19 40	155 08	1050		7A			
WAIKALOA-BOIS CAS 95.8	9142	04	HAWAII	S	19 56	155 48	900		8A			BOISE CASCADES WA CONST
CLOSED STATIONS												
ISLAND OF OAHU												
UPPER WAHIAWA 874.3	8838	05	OAHU	S	21 31	158 01	1115		6A			CLOSED 12/31/77

SEE REFERENCE NOTES FOLLOWING STATION INDEX

## STATION INDEX

HAWAII AND PACIFIC  
JANUARY 1978

STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES				OBSERVER
								TEMP.	PRECIP.	EVAP.	SPECIAL (SEE NOTES)	
PACIFIC												
EAST OF 180TH MERIDIAN												
ATU'U	4060	03	TUTUILA		14 16S	170 41W	265		4P			MARIST BROTHERS
CANTON ISLAND	4101	02	PHOENIX IS		2 46N	171 43W	8	9A	9A			ITT/FEDERAL ELEC CORP
FAGA ALU RESERVOIR	4135	03	AMER SAMOA		14 18S	170 42W	820		8A			CLOSEO 12/31/77
FALESAO VILLAGE	4248	03	TA'U'MAN		14 14S	169 31W	16		8A			SOLOMULI MALU'IA
JOHNSTON IS WSO AP	R 4320	01	LINE ISLANDS		16 44N	169 31W	10	MIO	MIO	SP	J	NATL WEATHER SERVICE
LEONE	4397	03	TUTUILA		14 21S	170 47W	20	6P	6P			ST THERESA SCHOOL
FRENCH FRIGATE SHOALS	4401	07			23 52N	166 17W	6	8P	8A			U S COAST GUARD
MIDWAY SAND ISLAND	4490	07			28 13N	177 21W	10	MIO	MIO			U S NAVY
PAGO PAGO WSO AP	R 4690	03	AMER SAMOA		14 20S	170 43W	12	MIO	MIO		J	NATL WEATHER SERVICE
WESTERN PACIFIC ISL. NORTH OF 12 N												
ANDERSEN AFB GUAM	\$3 4025	03	MARIANNA IS		13 35N	144 55E	624	MIO	MIO			AIR WEATHER SERVICE
CLARK AFB LUZON	\$3 4100	06	PHILIPPINE I		15 11N	120 33E	475	MIO	MIO			U S AIR FORCE
GUAM NAS	4226	03	MARIANNA IS		13 29N	144 48E	254	MIO	MIO			U S NAVY
GUAM WSMO	R 4229	03	MARIANNA IS		13 33N	144 50E	361	10A	10A	6P	J	NATL WEATHER SERVICE
MANGILAO	4468	03	GUAM		13 27N	144 49E	60		7A			GUAM AGRICULTURAL STA
ROTA	4800	03	MARIANNA IS		14 08N	145 09E	47		8A			OIST ADMINISTRATOR
SAIPAN LORAN	4860	03	MARIANNA IS		15 08N	145 42E	9	10A	10A			U S C G LORAN STATION
WAKE ISLAND WSO AP	R 4901	01	WAKE ISLAND		19 17N	166 39E	12	MIO	MIO		J	NATL WEATHER SERVICE
CAROLINE AND MARSHALL ISLANDS												
ANGUAR	4030	02	CAROLINE IS		6 55N	134 09E	15		8A			USCG LORAN STATION
ENIWETAK	4165	01	MARSHALL IS.		11 21N	162 21E	10	MIO	MIO			U S COAST GUARD
FALALOP I ULITHI ATOLL	4185	02	CAROLINE IS	2	10 02N	139 48E	6	MIO	MIO			RAPAHUEL B LINGESOH
KAPINGAMARANGI ATOLL	4325	01	PONAPE		1 05N	154 48E	10	MIO	MIO			ERSIN HAQUET
KOROR WSO	R 4351	02	CAROLINE IS		7 20N	134 29E	94	MIO	MIO		J	NATL WEATHER SERVICE
KWAJALEIN MISSILE RGN	R 4375	01	MARSHALL IS		8 44N	167 44E	7	12M	12M		J	KMR WEATHER SERVICE
LELE I KOSRAE	4395	02	KOSRAE		5 20N	163 02E	7	MIO	MIO			JULIAN E ROBERT
MAJURO WSO AP	R 4460	02	MARSHALL IS		7 05N	171 23E	10	MIO	MIO		J	NATL WEATHER SERVICE
METALANIM	4482	02	PONAPE		6 51N	158 19E	30	6P	6P			REV E. A. SOUCIE
MOKIL ATOLL	4490	02	PONAPE DIST.		6 41N	159 47E	27		SP			ESHAM BEN
NGASANG, BABELTHUAP	4580	01	PALAU ISLAND		7 38N	134 39E	10		8A			BETHANIA SEMINARY
PONAPE WSO	R 4751	02	CAROLINE IS		6 58N	158 13E	123	MIO	MIO		J	NATL WEATHER SERVICE
SATAWAN ATOLL	4814	02	CAROLINE IS		5 20N	153 44E	9	MIO	MIO			ANTER EKO
TRUK, MOEN I. WSO AP	R 4851	02	CAROLINE IS		7 28N	151 51E	5	MIO	MIO		J	NATL WEATHER SERVICE
WOLEAI ATOLL	4911	01	CAROLINE IS		7 23N	143 55E	7	MIO	MIO			HASUGULIMAR/HALEYEMAI
YAP WSO AP	R 4951	02	CAROLINE IS		9 29N	138 05E	44	MIO	MIO		J	NATL WEATHER SERVICE
CLOSED STATIONS EAST OF 180TH MERIDIAN												
FAGA ALU RESERVOIR	4135	03	AMER SAMOA		14 18S	170 42W	820		8A			CLOSEO 12/31/77

SEE REFERENCE NOTES FOLLOWING STATION INDEX

Additional information regarding the climates of Hawaii and the Pacific Ocean Area may be obtained by writing to the National Climatic Center, Federal Building, Asheville, N.C. 28801, or to any National Weather Service Office near you. Additional precipitation data for Hawaii are contained in "HOURLY PRECIPITATION DATA HAWAII."

**DIMENSIONAL UNITS:** Unless otherwise indicated, dimensional units used in this bulletin are: Temperature in °F., precipitation and evaporation in inches, and wind movement in miles. In "Supplemental Data" table directions entered in figures are tens of degrees. Resultant wind is the vector sum of wind directions and speeds divided by the number of observations.

**OBSERVATION TIME:** Data in the "Monthly Extremes," "Daily Precipitation" table, "Daily Temperature" table, and "Evaporation and Wind" table are for the 24 hours ending at time of observation unless indicated otherwise by reference letters in the Station Index. The Station Index shows observation time in local standard time.

**EVAPORATION** is measured in the standard Weather Service-type pan of 4-foot diameter unless otherwise noted below in the Evaporation and Wind table. Max and Min values in the Evaporation and Wind table are extremes of temperature of water in pan as recorded during 24 hours ending at time of observation. Wind is the total wind movement in miles over the evaporation pan as determined by a continuous anemometer recorder located 6-8 inches above the pan.

**NORMALS** for all stations are climatological standard normals based on the period 1941-1970.

**STATION NAMES:** Hawaii state key numbers are included following station names in the several tables.

**LATE REPORTS AND CORRECTIONS** will be carried only in the June and December issues of this bulletin.

**INTERPOLATED VALUES** for monthly precipitation totals may be found in the annual issue of this publication.

**IN THE DATA TABLES THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING:**

- No record in the "Supplemental Data" table, "Daily Precipitation" table, "Evaporation and Wind" table, and the Station Index.
- No record in the "Monthly Summarized Data" table and the "Daily Temperature" table is indicated by no entry.
- And also on an earlier date or dates.
- Highest observed one minute windspeed. This station is not equipped with an instrument to measure fastest mile data.
- \* Amount included in following measurement, time distribution unknown.
- † Extreme occurred at station with incomplete data which may have been exceeded.
- A The letter "A" shown following station name in "Monthly Summarized Data" table, "Daily Precipitation" table, and "Station Index," indicates amount carried in the "Total" column is for the period from last measurement of a preceding month through the last measurement of the current month. See "Daily Precipitation" table of this and previous bulletins for dates of measurement. Where gages are read only once monthly, measurements made on the first of a month are credited to the last day of the preceding month.
- B Adjusted to a full month.
- M One or more days of record missing: if average value is entered, less than 10 days record is missing. See "Daily Temperature" table for detailed daily record.
- R Amounts from recording gage.
- T Trace, an amount too small to measure.
- V Includes total for previous month.

**IN THE STATION INDEX THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING:**

- AR Observation made after rain.
- C In Special Column of Station Index indicates Recording Rain Gage Station. Hourly Precipitation values are processed for special purposes, and are published later in the "Hourly Precipitation Data" bulletin. If daily amounts are published in "Monthly Summarized Data" bulletin they are from a separate non-recording gage, except where indicated by reference 'R'. Such amounts may differ from amounts published from the recording gage in the "Hourly Precipitation Data" bulletin.
- J "Supplemental Data" table.
- MO Gage read once monthly; usually on the last day.
- OC Gage readings at periods varying from a few weeks to several months.
- S Storage precipitation station. Precipitation measurements, made at irregular intervals, are published in the annual issue of this publication, beginning with the 1977 data. Prior data are found in the "Storage-Gage Precipitation Data" Bulletin, which was discontinued with the 1976 issue.
- SS Observation time is near sunset.
- VAR Observation time is variable.
- WI Gage read weekly or irregularly only.
- WM Gage read weekly and last day of month.
- # Thermometers are generally exposed in a shelter located a few feet above sod-covered ground; however, this reference indicates that the thermometers are exposed in a shelter located on the roof of a building.
- 53 Maximum and minimum temperatures are the highest and lowest hourly readings for each day.
- ‡ DRAINAGE CODE: KAUAI: 1-NORTHERN 2-SOUTHEASTERN 3-SOUTHWESTERN OAHU: 1-WINDWARD KOOLAU 2-HONOLULU 3-SOUTH CENTRAL 4-WESTERN 5-NORTH CENTRAL MOLOKAI: 1-(NO INTRA-ISLAND DIVISIONS) LANAI: 1-(NO INTRA-ISLAND DIVISIONS) MAUI: 1-NORTHEASTERN 2-SOUTHERN 3-CENTRAL 4-WESTERN HAWAII: 1-NORTHERN 2-EASTERN 3-SOUTHERN 4-WESTERN 5-CENTRAL

Stations appearing in the tables with no data were either missing or received too late to be included in this issue.

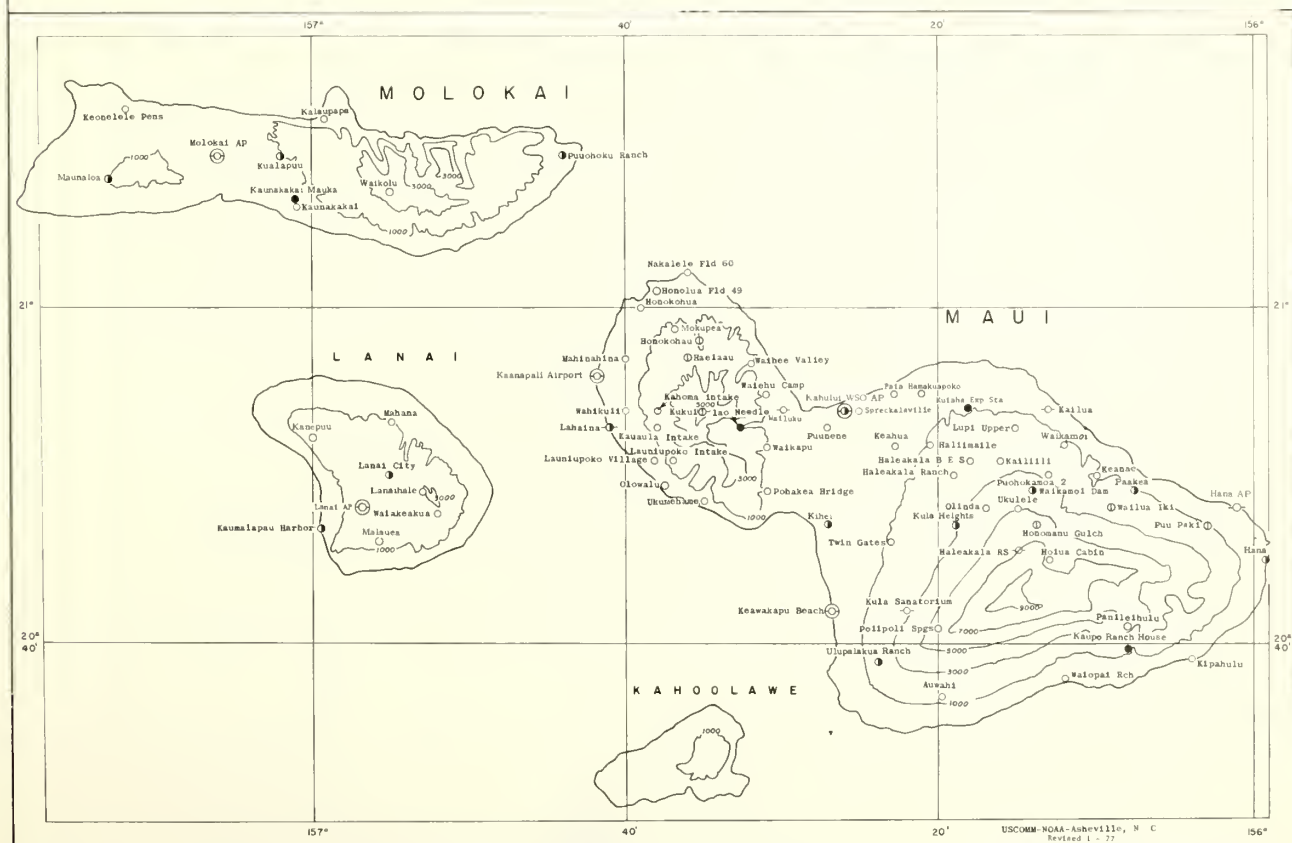
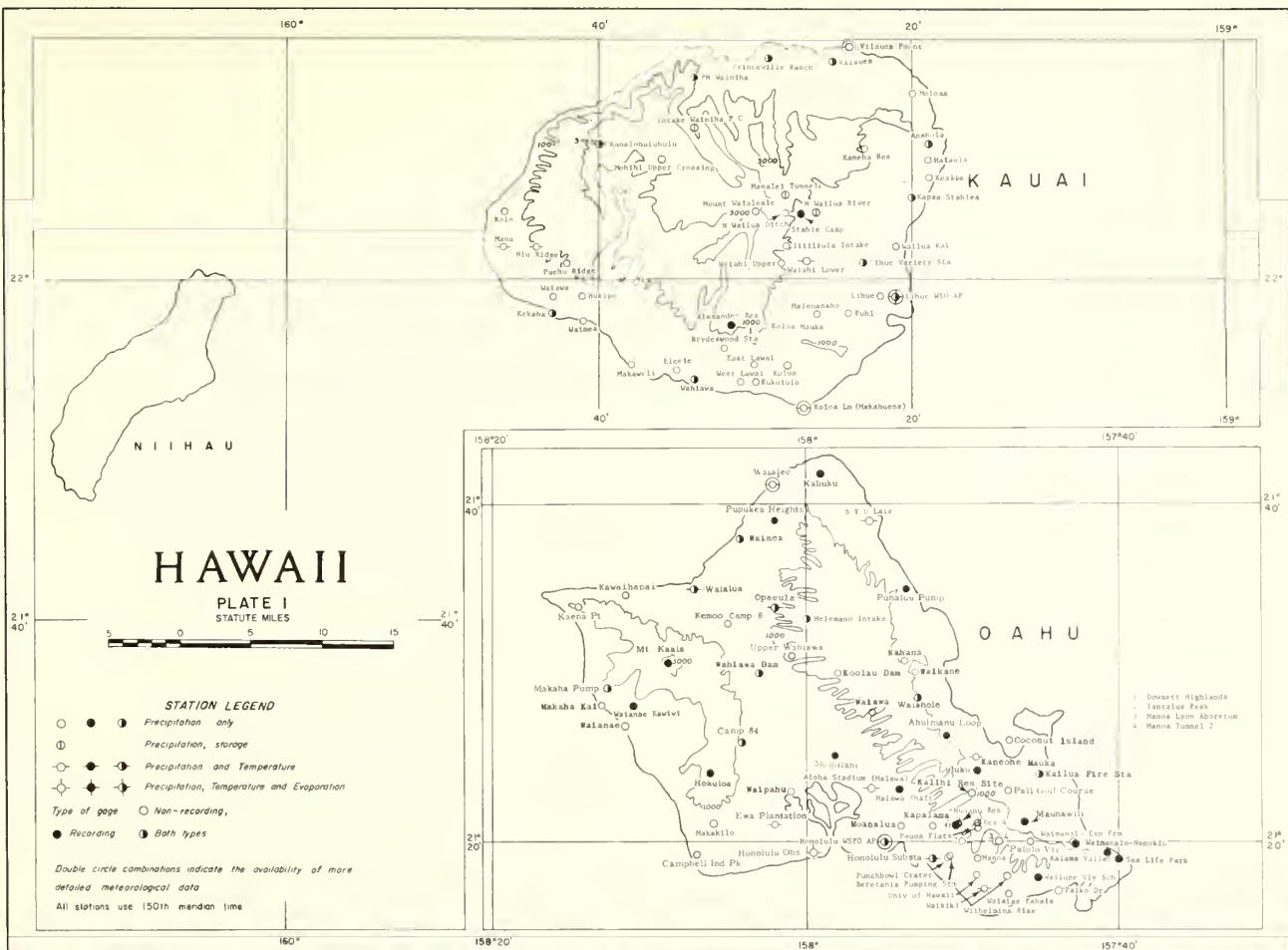
The Pacific includes stations in the Trust Territory of the Pacific Islands, Territory of Guam, American Samoa, and other scattered islands and atolls.

General weather conditions in the U.S. for each month are described in the CLIMATOLOGICAL DATA NATIONAL SUMMARY and STORM DATA.

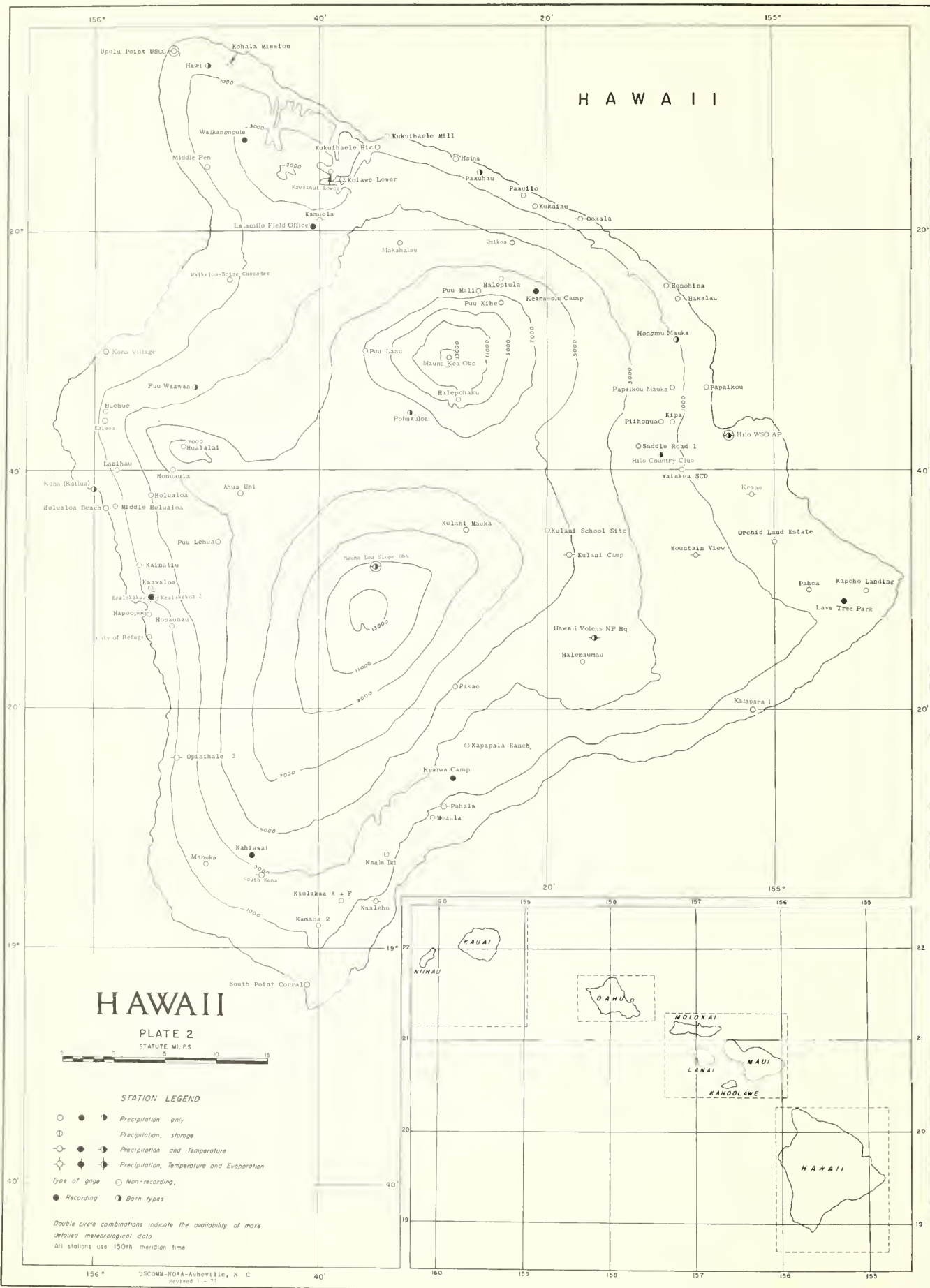
Information concerning the history of changes in locations, elevations, exposure, etc., of substations through 1957 may be found in the publication "Substation History" for this State, price 40 cents. Similar information for regular National Weather Service Offices may be found in the latest annual issue of Local Climatological Data, price 20 cents. These publications may be obtained from the National Climatic Center at the address shown above.

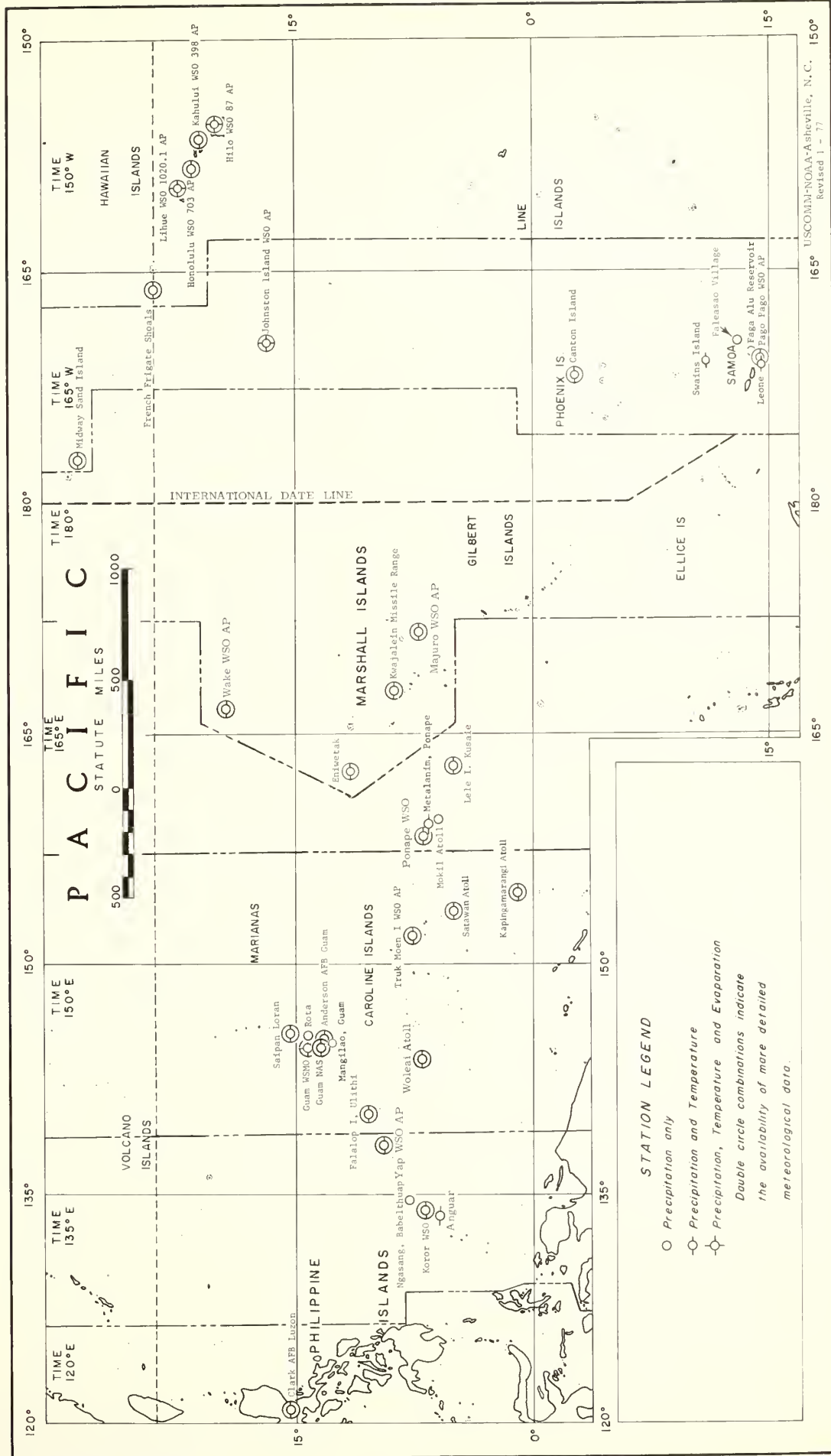
Subscription Price: \$5.10 a year for each section including annual summary; \$5.55 additional for foreign mailing; 40¢ single copy; 30¢ annual summary. Make checks payable to Department of Commerce, NOAA; send payments and orders to: National Climatic Center, Federal Building, Asheville, N. C. 28801. Attn: Publications.

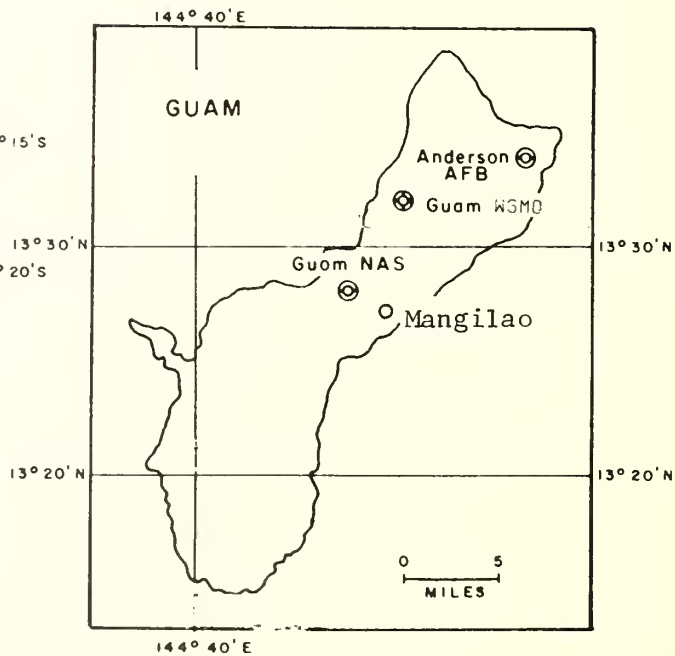
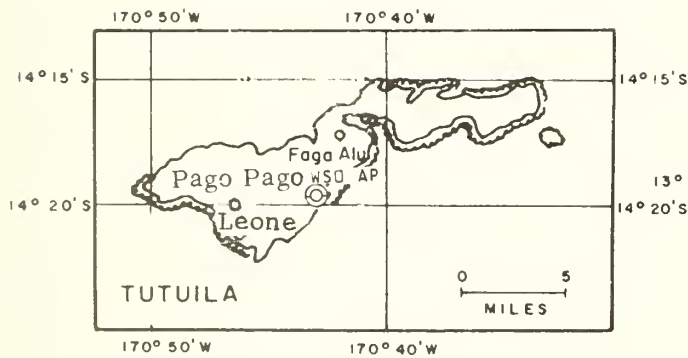
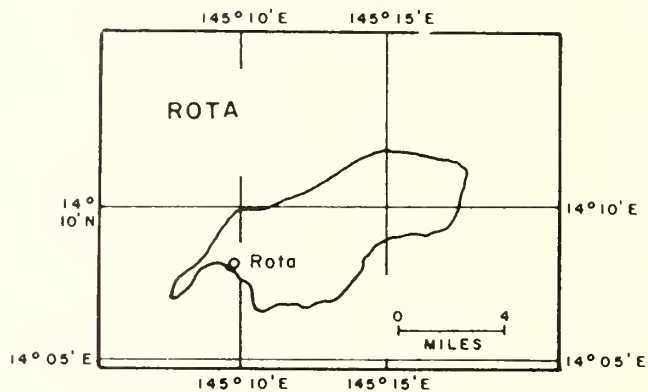
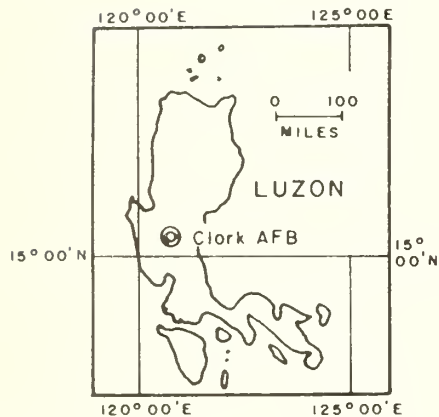
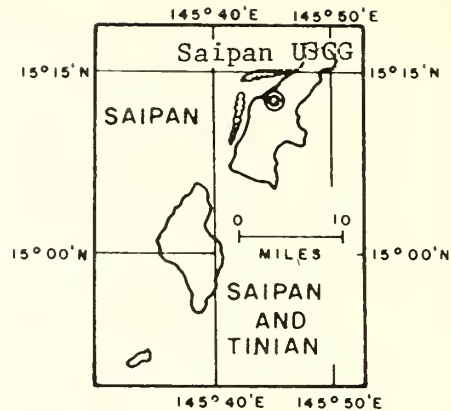
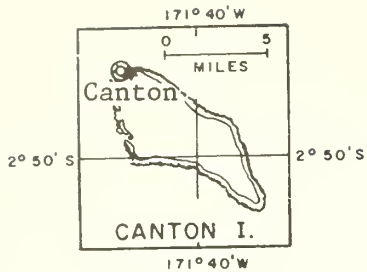




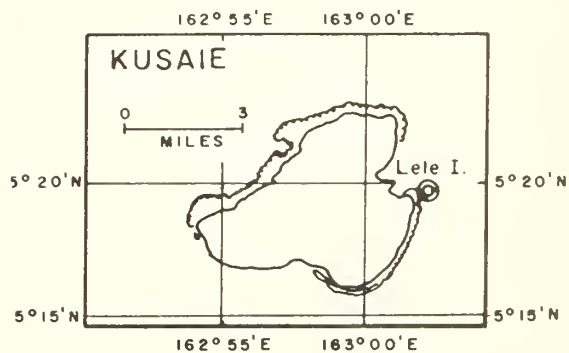
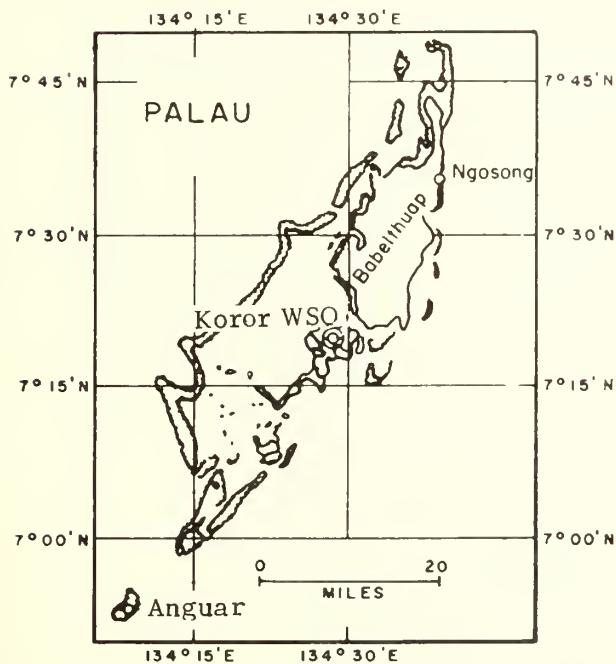
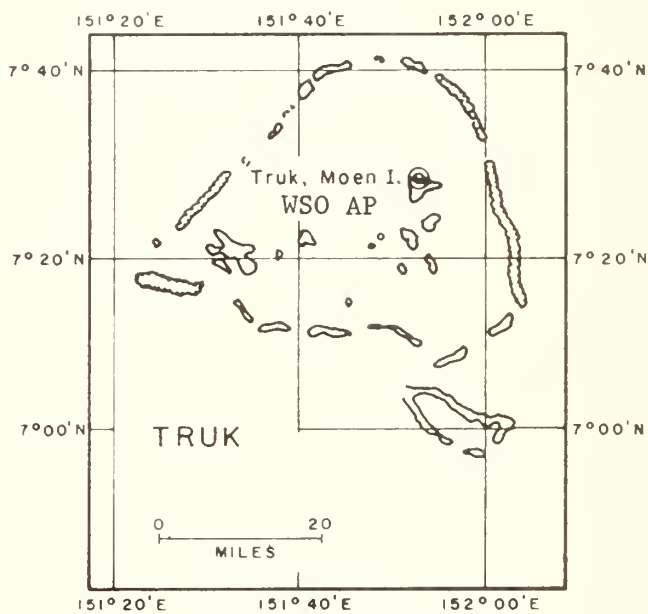
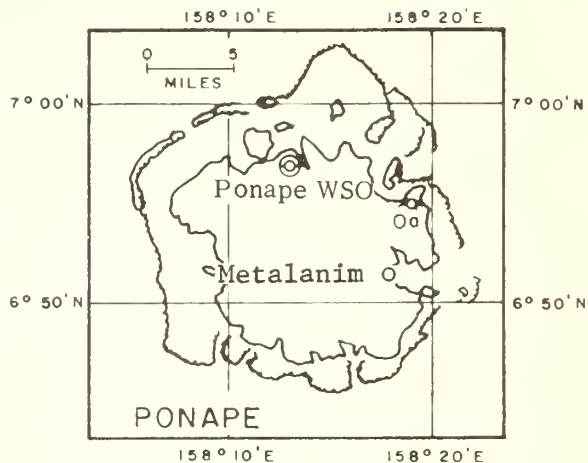
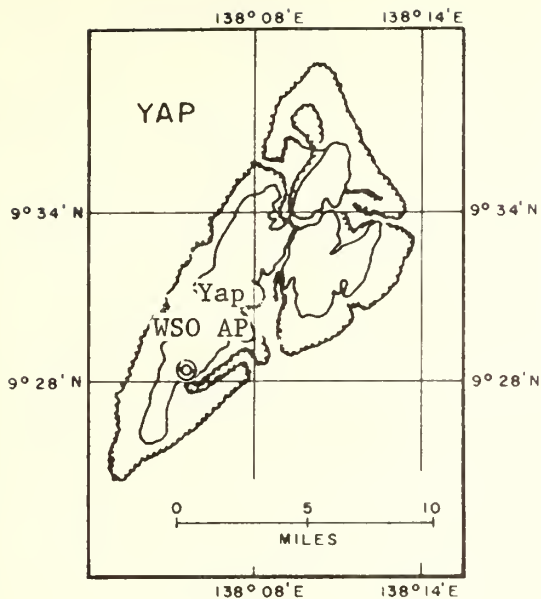




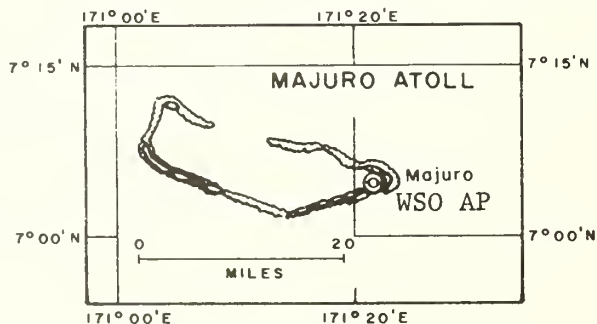
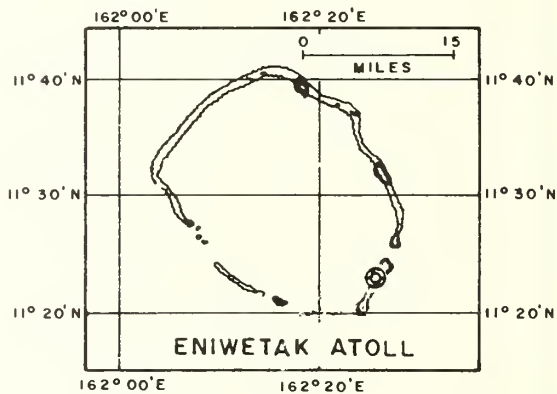
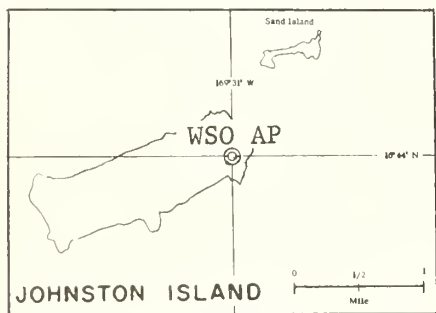
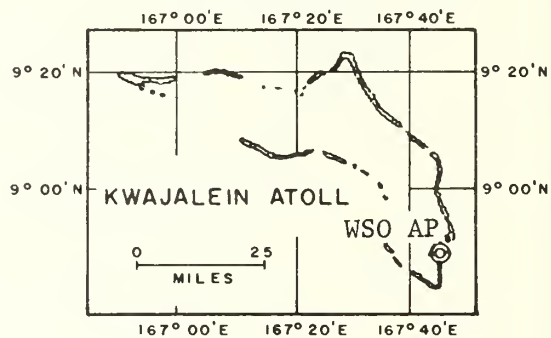
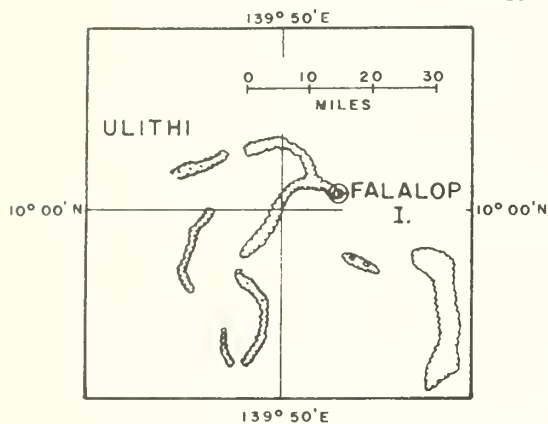
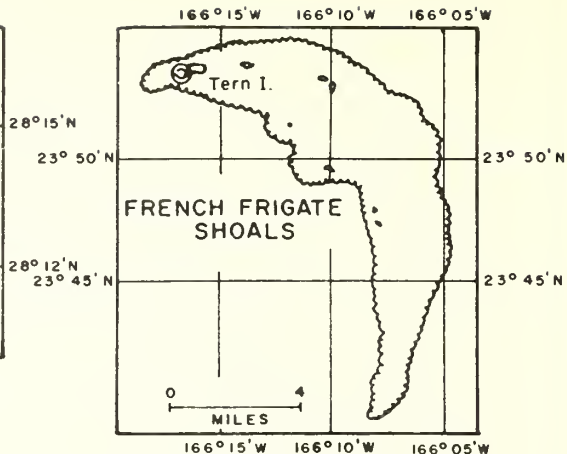
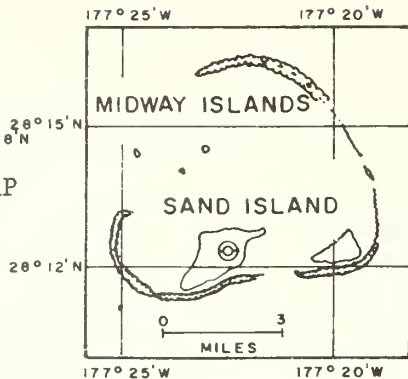
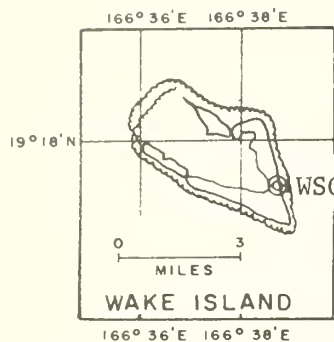




Reef



— Reef







U S DEPARTMENT OF COMMERCE  
NATIONAL CLIMATIC CENTER  
FEDERAL BUILDING  
ASHEVILLE, N C 28801

POSTAGE AND FEES PAID  
U S DEPARTMENT OF COMMERCE

COM 210



**THIRD CLAS**



# Climatological Data

HAWAII AND PACIFIC

## TEMPERATURE AND PRECIPITATION EXTREMES

HAWAIIAN STATIONS ONLY

HIGHEST TEMPERATURE: PUUKOHOLA PEAK 98.1 HAWAII 89 DATE 26+  
 LOWEST TEMPERATURE: MAUNA LOA SLOPE 085 HAWAII 28 DATE 17  
 GREATEST TOTAL PRECIPITATION: HONOLULU MAUKA 138 HAWAII 8.84  
 LEAST TOTAL PRECIPITATION: 11 STATIONS .00  
 GREATEST 1 DAY PRECIPITATION: PAPAICOU MAUKA 170.1 HAWAII 4.35 DATE 23

## SUPPLEMENTAL DATA

	WIND (SPEED - M.P.H.)				RELATIVE HUMIDITY AVERAGES- PERCENT				NUMBER OF DAYS WITH PRECIPITATION								PERCENT OF POSSIBLE SUNSHINE AVERAGE (TENTHS)	SKY COVER SUNRISE TO SUNSET	
	RESULTANT DIRECTION	RESULTANT SPEED	AVERAGE	FASTEST MILE	DIRECTION OF FASTEST MILE	DATE OF FASTEST MILE	STANDARD OF TIME GREENWICH CIVIL				TRACE	.01-.09	.10-.49	.50-.99	1.00-1.99	2.00 AND OVER			TOTAL
							12	18	00	06									
GUAM WSMO	-	-	-	26	E	28	-	79	74	87	0	12	9	0	2	0	23	-	8.0
HILO WSO 87 AP	21	0.9	6.8	19	E	10	79	71	60	80	4	4	6	1	1	0	16	68	4.1
HONOLULU WSO 703 AP	5	1.5	8.8	29	NE	09	76	75	53	65	7	2	3	0	0	0	12	74	3.7
JOHNSTON WSO AP	7	13.5	15.2	29	NE	16+	73	74	66	72	9	3	1	0	0	0	13	85	4.1
KAHULUI WSO 398 AP	7	3.3	8.1	26	NE	16+	73	75	56	66	0	1	1	1	0	0	3	82	2.4
KOROR WSO	6	7.4	8.9	22	NE	12	87	-	81	78	1	10	9	1	0	5	26	49	8.6
KWAJALEIN MISSILE RGN	7	15.1	15.5	25++	9	03	79	78	71	75	6	7	5	3	0	1	22	-	9.3
LIHUE WSO 1020.1 AP	4	2.0	9.5	22	NE	08+	78	77	54	73	4	4	1	0	0	0	9	72	3.3
MAJURO WSO AP	7	13.2	13.5	26	E	15+	79	79	73	76	4	8	6	0	1	1	20	78	9.8
PAGO PAGO WSO AP	22	2.0	8.5	26	SW	23	90	90	77	83	2	12	5	3	3	0	25	43	8.5
PONAPE WSO	-	-	-	23	NE	11	82	-	77	78	2	8	9	3	1	0	23	29	9.1
TRUK.MOEN I. WSO AP	6	13.0	13.5	28	NE	08	81	-	76	74	7	12	0	0	1	0	20	58	9.9
WAKE ISLAND WSO AP	7	8.6	11.8	26	E	11+	84	86	67	73	2	5	2	0	0	0	9	78	4.0
YAP WSO AP	7	9.9	10.6	28	NE	10	83	-	76	74	5	9	6	1	2	0	23	59	8.3

I CERTIFY THAT THIS IS AN OFFICIAL PUBLICATION OF THE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION AND IS COMPILED FROM RECORDS ON FILE AT THE NATIONAL CLIMATIC CENTER, ASHEVILLE, NORTH CAROLINA 28801.

*Daniel B. Mitchell*

DIRECTOR  
NATIONAL CLIMATIC CENTER

**noaa**

NATIONAL OCEANIC AND  
ATMOSPHERIC ADMINISTRATION / ENVIRONMENTAL  
DATA SERVICE / NATIONAL CLIMATIC CENTER  
ASHEVILLE, N.C.

## MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

HAWAII AND PACIFIC  
FEBRUARY 1978

STATION	TEMPERATURE											PRECIPITATION														
	AVERAGE MAXIMUM	AVERAGE MINIMUM	AVERAGE	DEPARTURE FROM NORMAL	HIGHEST	DATE	LOWEST	DATE	DEGREE DAYS	NO. OF DAYS				TOTAL	DEPARTURE FROM NORMAL	GREATEST DAY	DATE	SNOW, SLEET			NO. OF DAYS					
										MAX.		MIN.						TOTAL	MAX. DEPTH ON GROUND	DATE	1.00 OR MORE	.50 OR MORE				
										80° OR WETTER	32° OR BELOW	32° OR BELOW	50° OR BELOW													
HAWAII																										
ISLAND OF KAUAI																										
ANAHOLA 1114	A	66.5	42.5	54.5		70	25+	35	24+	0	0	0	0	.35		.12	8	.0	0		5	0				
KANALOHULU 1075														2.27		.74	28	.0	0		2	0				
KAPAA STABLES 1104														.48				.0	0		0	0				
KILAUEA POINT 1133	A	82.5	66.4	74.5		87	21	61	28	0	0	0	0	1.04		.46	28	.0	0		2	0				
KILOA 936														.34		.12	2	.0	0		0	0				
LIIHUE WSO 1020.1 AP	//R	81.6	62.7	72.2	1.0	85	26	58	20+	0	0	0	0	.54	- 3.74	.48	28	.0	0		1	0				
MANA 1026		82.3M	60.1M	71.2M	.4	85	28+	54	9	0	0	0	0	.47	- 2.09	.19	28	.0	0		2	0				
N WAILUA DITCH 1051	A													.89		.49	14	.0	0		1	0				
PH WAINIHA 1115														1.94	-10.55	.74	8	.0	0		3	2				
PUEHU RIDGE 1040														2.06	- 1.66	1.16	14	.0	0		2	1				
WAIHAWA 930	A													.30	- 3.29	.21	28	.0	0		1	0				
WAIHAI LOWER 1054		77.1	55.5	66.3		79	8+	50	24+	0	0	0	0	1.36	- 7.45	.87	14	.0	0		2	1				
WAIKOA 947														.49	- 2.46	.25	2	.0	0		0	0				
ISLAND			67.7											.96				.0								
ISLAND OF OAHU																										
ALOHA STADIUM-HALAWA		81.8M	63.2M	72.5M		85	28	57	21	0	0	0	0	.11		.05	17	.0	0		0	0				
8 Y U LAIE 903.1		81.5	65.0	73.3		86	2	59	21+	0	0	0	0	.47		.19	21	.0	0		2	0				
HONOLULU OBSERV 702.2														.10		.10	19	.0	0		1	0				
HONOLULU WSO 703 AP	R	82.4	64.0	73.2	.9	86	16+	59	20+	0	0	0	0	.75	- 1.71	.39	22	.0	0		3	0				
KANEHOE MAUKA 781		79.2	66.7	73.0	2.0	84	4	64	21+	0	0	0	0	1.64	- 5.27	.59	19	.0	0		4	1				
KOOLAU DAM 833	A													1.42		.50	14	.0	0		5	1				
MANOA LYON ARBORETUM		80.0	61.3	70.7		83	28	57	20	0	0	0	0	3.03		.79	17	.0	0		10	2				
NUUANU RES 4 783														3.94	- 4.86	1.06	28	.0	0		9	3				
OPAEULA 870	A	79.9	58.1	69.0	2.6	86	8	52	24	0	0	0	0	.27		.08	22	.0	0		0	1				
PALOLO VALLEY 718	R													4.48	- 5.54	1.20	28	.0	0		9	3				
WAIHAWA DAM 863	A													.52		.12	28+	.0	0		0	0				
WAIHOLE 837	A													2.65		.82	20	.0	0		6	2				
WAIKALEE 896.3		78.9	65.5	72.2		83	18	60	20+	0	0	0	0	.52		.15	22	.0	0		2	0				
WAILUA 847	A	81.3	56.8	69.1	.6	85	14	52	24+	0	0	0	0	.32	- 3.33	.16	8	.0	0		1	0				
WAIKIKI 717.2		82.2	59.8	71.0		86	14	54	19	0	0	0	0	.07		.05	19	.0	0		0	0				
WAIMANALO EXP FARM		81.1	63.0	72.1		85	7+	56	22	0	0	0	0	1.58		.48	19	.0	0		5	0				
WAIPIAHU 750	A													.27		.12	23	.0	0		0	0				
ISLAND			71.6											1.30				.0								
ISLAND OF MOLOKAI																										
KUALAPUU 534	A													.75		.34	17	.0	0		0	0				
MAUNALO 511	A																									
MOLOKAI AP 524														.75				.0								
ISLAND																										
ISLAND OF LANAI																										
LANAI CITY 672	A	74.9M	58.3M	66.6M	.7	78	27+	54	10	0	0	0	0	.70	- 2.52			.0	0		0	0				
ISLAND			66.6											.70				.0								
ISLAND OF MAUI																										
HALEAKALA B E S 434	A	60.6	39.6	50.1	.2	72	11	33	13	0	0	0	0	.75		.28	19	.0	0		3	0				
HALEAKALA RS 338		80.4	64.1	72.3		84	26	59	28+	0	0	0	0	.29	- 6.45	.18	4	.0	0		1	0				
HANA AIRPORT 355														.88		.51	14	.0	0		3	1				
HONOKOHUA 493	A	79.0	64.2	71.6		82	17	61	25+	0	0	0	0	.17		.07	8	.0	0		0	0				
KANAPALI AP 453.1																		.0	0							
KAHULUI WSO 398 AP	R	82.2	63.5	72.9	1.3	86	16	57	10	0	0	0	0	.86	- 1.78	.65	28	.0	0		2	1				
KAILUA 446		76.8M	62.5M	69.7M	1.8	80	6	59	22+	0	0	0	0	1.05	- 9.24	.28	14	.0	0		0	0				
KEANAE 346	A													7.40				.0	0							
KIPAHULU 258														4.74	- 2.93	3.49	23	.0	0		5	2				
KULA SANATORIUM 267		71.6	52.9	62.3	1.4	78	9	48	24	0	0	0	0	.21	- 3.24	.20	4	.0	0		1	0				
LAHAINA 361		82.9	63.2	73.1	1.6	86	26+	60	11	0	0	0	0	.04	- 1.61	.03	4	.0	0		0	0				
PAIA 406														.09	- 3.43	.05	4	.0	0		0	0				
WAILUKU 386	A	80.4M	63.0M	71.7M	.4	87	6	58	6	0	0	0	0	.41	- 3.40	.20	9	.0	0		1	0				
ISLAND			68.0											1.34				.0								
ISLAND OF HAWAII																										
HAWAII VOLCNS NP HO 54	R	68.6M	45.5M	57.1M	.5	76	7	37	9	0	0	0	0	1.70	- 8.53	.43	14	.0	0		5	0				
HILO WSO AP 87		82.4	62.5	72.5	1.5	87	28	57	6	0	0	0	0	4.26	- 8.64	1.27	23	.0	0		8	2				
HUEHUE 92.1	A													.03		.03	27	.0	0		0	0				
KAINALU 73.2		78.0	56.8	67.4		80	19+	54	25+	0	0	0	0	.68		.31	10	.0	0		2	0				
KAPOHO BEACH 93.11		83.3M	63.7M	73.5M		87	12	58	25	0	0	0	0	2.33		.92	14	.0	0		1	0				
KEAAU 92		80.3M	60.7M	70.5M		85	6	57	7+	0	0	0	0	3.20		1.23	23	.0	0		1	1				

SEE REFERENCE NOTES FOLLOWING STATION INDEX

## MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

HAWAII AND PACIFIC  
FEBRUARY 1978

STATION		TEMPERATURE											PRECIPITATION													
		AVERAGE MAXIMUM	AVERAGE MINIMUM	AVERAGE	DEPARTURE FROM NORMAL	HIGHEST	DATE	LOWEST	DATE	DEGREE DAYS	NO. OF DAYS				TOTAL	DEPARTURE FROM NORMAL	GREATEST DAY	DATE	SNOW, SLEET			NO. OF DAYS				
											MAX.		MIN.						TOTAL	MAX. DEPTH ON GROUND	DATE	-10 OR MORE	-50 OR MORE	1-00 OR MORE		
											30° OR ABOVE	32° OR ABOVE	32° OR BELOW	0° OR BELOW												
HAWAII																										
KONA (KAILUA) 68.3	A	82.2M	66.4M	74.3M		84	21	64	27*		0	0	0	0	.00		.00		.0	0		0	0	0	0	0
KUKUIHALE HIC 199															1.77	- 5.28	.75	23		0		5	1	0	0	0
KULANI CAMP 79		62.4M	40.8	51.6M		70	7*	32	11*		0	0	3	0	1.65		.34	14		0		6	0	0	0	0
PAHALA 21	A	80.3M	59.2M	69.8M	.9	85	10	55	10*		0	0	0	0	1.22		.55	23		0		0	1	0	0	0
POHAKULOA 107															.00		.00		.0	0		0	0	0	0	0
PUUKOHOLA HEIAU 98.1		85.1M	62.9M	74.0M		89	26*	59	10*		0	0	0	0	.00		.00		.0	0		0	0	0	0	0
PUU WAHAWA 94.1	A														.09				.0	0		0	0	0	0	0
SOUTH KONA 2.31		75.1	53.3	64.2		82	3	48	25		0	0	0	0	.64		.20	16		0		3	3	0	0	0
WAIKAKA SCO 88.2															5.57		2.35	23		0		9	3	1	0	0
ISLAND				67.5											1.65				.0							

SEE REFERENCE NOTES FOLLOWING STATION INDEX



## MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

HAWAII AND PACIFIC  
FEBRUARY 1978

STATION		TEMPERATURE										PRECIPITATION																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
		AVERAGE MAXIMUM	AVERAGE MINIMUM	AVERAGE	DEPARTURE FROM NORMAL	HIGHEST	DATE	LOWEST	DATE	DEGREE DAYS	NO. OF DAYS				TOTAL	DEPARTURE FROM NORMAL	GREATEST DAY	DATE	SNOW, SLEET			NO. OF DAYS																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
											MAX.	MIN.	TOTAL	GREATEST DAY					DATE	TOTAL	MAX. DEPTH ON GROUND	DATE	.10 OR MORE	.50 OR MORE	1.00 OR MORE																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
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SEE REFERENCE NOTES FOLLOWING STATION INDEX

# DAILY PRECIPITATION

HAWAII AND PACIFIC

FEBRUARY 1978

STATION	TOTAL	DAY OF MONTH																															
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
HAWAII																																	
ISLAND OF KAUAI																																	
ANAHOLA 1114	A	.35		.02					.12						.10	.01							.02	.05	.04								
89YOLSWOOD STA 985	A	.37	.15	.01																													
EAST LAHAI 934	A	.19		.07											.07	T		T						.01									
ELEELE 927	A	.17		.08			T																										
HALEAULA 1110	A	.46		.03					.10														.04	.05	.05								
HALENAHONA 1006	A	2.08		.04											1.76	.08	.04								.04	.02							
HANAULEI TUNNEL 1053	A	2.40																															
HUKIPO 945	A	.84	.19	.18											.07	.21																	
ILILILUA INTAKE 1050	A	.99	.13												.10	.51	.10	.02	.01					.03		.03	.01						
INTAKE WAINIWA PC 1086	A	1.35		.09	T					.53																							
KANALOHULU 1075	A	2.27	.02	.29	.02				.02						.04					.07				.12					.02	.24		.74	
KANEHA RESERVOIR 1092	A	2.25	.04							.40					.05	1.20	.02						.17	.02	.20								
KAPPA STABLES 1104	A	.48	.07							.04					.07									.14		.05	.06						
KERALA 1112	A	.40	.03							.10																							
KERAMA 944	A	.47	.18	.01											.04	.05								.10	.07								
KILAUEA 1134	A	3.07	.13	.09						.12					.54									.24					.14	.12	1.69		
KILAUEA POINT 1133	A	1.04	.04							.06					.30	.01							.05	.01				.01	.10	.46			
KOLO 1033	A	.88	.18												.25																		
KOLAR 936	A	.34	.12	.03											.11																		
KOLAR LN (MARK) 940.1	A	.17	.01														.01																
KOLAR MAUKA 994	A	1.22							.09						.57								.03										
KUKULUA 935	A	.12	.02																														
LIHUE VARIETY ST 1062.1	A	.52													.48																		
LIHUE 1020	A	.23	.02												.09	.02		.03															
LIHUE W50 1020.1 AP	A	.54	.01												T	T	T																
MAKAHELE 965	A	.41	.13	.03																													
MANA 1026	A	.47	.18	.01											.04	.05																	
MOLOAI UPR CROSS 1083	A	.46																															
MOLOAI 1146	A	.46							.12																								
MOUNT MALEALE 1047	R																																
NIU RIDGE 1035	A	1.98	.46												1.15									.09									
N WAILUA DITCH 1051	A	.89	.07												.09	.49	.10							.04	.01								
N WAILUA RIVER 1055	A	1.60																															
ON WAILUA 1115	A	1.04	.18	.02						.74					.07	T																	
PRINCEVILLE RANCH 1117	A	1.86	.05	.23	.11					.29					.58																		
PUEHU RIDGE 1040	A	2.05	.17	.07											1.16																		
PUNI 1013	A	.22													.13																		
WAILUA 930	A	.30	.07						.02																								
WAILUA LOWER 1054	A	1.36	.11												.11	.87	.04	.06	.01	.01													
WAILUA UPPER 1052	A	1.21	.10												.25	.54	.03	.05	.02	.05													
WAILUA 943	A	.44	.23												.01																		
WAILUA KAI 1065	A	.18	.02																														
WAILUA 947	A	.40													.05	.07																	
WEST LAHAI 931	A	.18	.01	.05											.02	.02	.03																
ISLAND OF MAUI																																	
ALBUA STADIUM-HAWAII																																	
BERETANIA PUMPING STA	A	.11							.03					.02				.01	.05														
6 Y U LAIE 903.1	A	.22								.03					.07	.01			.02	.01													
CAMPBELL INC PK 702.5	A	.47																															
CAMP 84 807	A	.13																															
COCOAUT ISLAND 840.1	A	.71								.12	.01																						
CUA PLANTATION 741	A	.44							.01																								
HELEMANO INTAKE 881	A	.47																															
HONOLULU OBSERV 702.2	A	.10																															
HONOLULU W50 703 AP	A	.75		.01																													
KAENA POINT 841.3	A	1.47								.06					.09	.84																	
KAHANA 883	A	2.96							.01						.34																		
KALIA FIRE STA 701.3	A	.83								.16																							
KALIA 955 SITE 777	A	.57								.44					.08	.06	.80	.94	.86														
KANEHE MAUKA 781	A	1.64								.46	.15				.10	.03	.06	.06	.05	.59	.01												
KAPALAPA 773	A	.87								.01					.26																		
KAWAHAPA 841	A	.51	.01							.08					.01																		
KEMO CAMP 8 855	A	.57		.06						.14					.03	.04	T	.01															
KOOLU DAM 833	A	1.40								.02					.20	.50	.16																
MAKAHA PUMP 800.2	A	.19																															
MAKAHELE 730.1	A	.31													.03																		
MANA LYON ARBORETUM	A	3.03	.01							.10	.02				.35	.53	.13	.10	.79	.24	.14												
MANOA TUNNEL 2 716	R	3.70								.18	.30				.14	.32	.02	.64	.38	.40	.15												
MANUALUA 770	A	.01		.01						.01					.06																		
NUANUA RES 4 783	A	3.94								.26					.30	.12	.22	.06															

# DAILY PRECIPITATION

HAWAII AND PACIFIC  
FEBRUARY 1976

STATION	TOTAL	DAY OF MONTH																															
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
HAWAII																																	
ISLAND OF LANAI																																	
KANEPUU 690	A	.30	x	x	x	x	x	x	x	x	.30																						
KAUNAHUAPU HARBOR 658	A	.24									.24																						
LANAI AIRPORT 656	A	.70									.15																						
LANAI CITY 672	A	.63	x	x	x	x	x	x	x	.08	x	x	x	x	x	x	x	x	x	x	x	x	x	.03	x					.01	.05		
LANAIHOLE 684	A	.63	x	x	x	x	x	x	x	.08	x	x	x	x	x	x	x	x	x	x	x	x	x	.55	x								
MAHANA 694																																	
MAHAUEA 676	A	.05	x	x	x	x	x	x	.05																								
MAHAUEA 685	A	.05	x	x	x	x	x	x	.02	x	x	x	x	x	x	x	x	x	x	x	x	x	.03	x	x	x	x	x	x	x			
MAHAUEA 685	A	.46	x	x	x	.20										.08	x	x	x	x	x	x	.03	x	x	x	x	x	x	x	.13		
ISLAND OF MAUI																																	
AUWAHI 252	A	.74	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	.74	x	x	x	2.00	x	x	x	x			
HALEKALU 477	A	2.00	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x		
HALEKALU B E S 434	A	.75	x	x	x	x	x	x	x	x	.16					.03	x	x	x	x	.28	x	x	.10	.08					.04	.85		
HALEKALU RANCH 432	A	.29	x	x	x	x	x	x	x	x	.16					.02	x	x	x	x	.13	x	x	.08									
HALEKALU WS 338	A	.28				.18	T							T	.03	T	T																
HALIIMALE 423	A	.33							.08												x	.20				.04			x	.01			
HAKAPUPOKO 485	A	.47	T					.04			.02	.05		.04	.12	.06	.08	.06	T														
HANA 354	A	.52													.47	.05																	
HANA AIRPORT 355	A	.88													.02	.51	.10	.07															
HOLUA CABIN 258.5	A	.00																							.10								
HONOKOHU 480																																	
HONOKOHU 493	A	.51				.12	x	x	x	x	.20				.13		.01	.05	x	x	x	x	x	x	x	x	x	x	x	x	2.60		
HONOLUA FIELD 40 494	A	.34	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	.34		
HONOHU GULCH 341	A	1.00	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	1.00		
KANAPALI AP 453.1	A	.17				.02				.07	.02				.03									T								.03	
KAHONA INTAKE 374	A	1.75	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	1.75		
KAHULUI WSO 398 AP	A	.86				.09	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	1.75		
KAILI 436	A	4.68	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	4.68		
KAILUA 446	A	1.05	x	x	x	x	x	x	x	x	.05			.18	.28	.20	.18	.08	x	x	.03	x	x	.05	x	x	x	x	x	x	x		
KAUAI INTAKE 375	A	.03	x	x	x	x	x	x	x	x	x	x	x	x	x	x	.03	x	x	x	x	x	x	x	x	x	x	x	x	x	x		
KEAHUA 410	A	.15	x	x	x		.03	x	x	x	.04										.07	x	x	x	x	x	x	x	x	x	x	.01	
KEAHUA 346	A	.74	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	7.40		
KEAHUA BEACH 260.2	A	.32				.18																											.03
KIHEI 311	A	.32				.30																											.02
KIPAHULU 258	A	4.74											.15	.35	.16	.06								3.49								.53	
KUKUI 380	A	3.50	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x		
KULA SANATORIUM 267	A	.21				.20										T					.01											T	
LAHAINA 351	A	.04				.03																											
LAUNIPOKO INTAKE 376	A	.65	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	.65		
LAUNIPOKO VILLAGE 372	A	.00																															
LUPU UPPER 442	A	2.50	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	2.50		
MAHINAHINA 466	A	.32	x	x	x	.06	x	x	.10	.08					.08																		
MAHINAHINA 475	A	.60	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x		
MAKALELE FIELD 60 497	A	.60	x	x	x	x	.13							.08	x	x	.08	x	x	.17	x	x	x	x	x	x	x	x	x	x	.22		
OLINDA 332	A	.06				x	x	x	.02	x	x	.20	x	x	x	.25																	
OLUHALU 296.1	A	.37				.34	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x		
PARKER 350	A	8.34	.01			.05	x	x	x	x	.43	x	x	.28	x	x	1.42	x	x	3.10	x	x	x	.03									
PAHA 406	A	.09				.05	x	x	x	.03							.01																
PAHOLEHOLE 259.2	A	1.70	x	x	x	x	x	x	x	x	x	x	x	x	x	x	1.70	x	x	x	x	x	x	x	x	x	x	x	x	x	x		
PEAKI 488.6	A	2.58											.28	.21	.03	.13			.06													1.87	
POMAKA BRIDGE 307.3	A	.57								.20																							
POLIPOLI SPRINGS 267.2	A	8.42	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	.25		
PUNOHAKA 2 343	A	2.20	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	6.42		
PUNENE 306	A	.29				.17				.07																							.05
SPRECKELSVILLE 400.2	A	.34				.26				.08																							
TWIN GATES 261.3																																	
UKULELE 333	A	.00																															
UKUMEHAE 301	A	.30				.30																											
ULUPALAKA RANCH 250	A	.16				.16																											
WAHIKULI 364	A	.15				.10																											
WAIHEU CAMP 484	A	.38							.25																								
WAIHEE VALLEY 482	A	.77	x	x	x	x	x	x	.35					x	x	x	x	x	x	x	.08	x	x	.20								.14	
WAIKANI 440	A	3.20	x	x	x	x	x	x	x	x	.45	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	3.20		
WAIKANI DAM 336	A	2.54	x	x	x	x	x	x	.01	x	x	x	x	.47	x	x	.15	x	x	x	.68	x	x	.76	x	x	x	x	x	x	.02		
WAIKAPU 390	A	1.08							.50														.25		.76							.25	
WAILUKU 386	A	.41	x	x	x	x	x	.02		.20							T																
WAIOPAI RANCH 256	A	1.17	x	x	.45	x	x	.08						x	x		.64						.09				x	x	.08		.02		
ISLAND OF HAWAII																																	
ANUA UMI 75	A	.05	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	.05		
CITY OF REFUGE 27.4	A	.02	T											.02	T																		
HAKALUA 142	A	1.17							.12								.08	x	x	.47													

HAWAII AND PACIFIC  
FEBRUARY 1978

SEE REFERENCE NOTES FOLLOWING STATION INDEX

# DAILY PRECIPITATION

HAWAII AND PACIFIC  
FEBRUARY 1978

STATION	TOTAL	DAY OF MONTH																														
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
PACIFIC																																
* * *																																
EAST OF 180TH																																
MERIDIAN																																
ATU'U	8.86	.18	.28		.51	.03	.06		.91	1.63	.45		.26	1.22	.23	1.03	.10	.13		.30	.02		.06	.12			.02	.08	.44		.11	.17
CANTON ISLAND	2.83	.12	.02				.25																									
FALEASAO VILLAGE	19.20			.06	.45	.26	.72		.63	3.98			.04	1.38		.26	.18	.09	.45	.97	2.06		.38	.73	.08	.01	T	.70	1.86	1.15	2.84	
JOHNSTON IS WSO AP	.26	T									T	.17										T				T	T					
LEONE	9.85	.47	1.10	.63	.10	.03	.07		.05	2.02	.32		.10	.22	.03	.09	.04	1.25	.64	.08	.51							.20			1.90	
FRENCH FRIGATE SHOALS																																
MIDWAY SAND ISLAND	2.09	.10	.56		.26	.07	T				.15				T																	
PAGO PAGO WSO AP	9.52	.19	.29	.01	T	.01	.04		.05	1.74	.09		.79	.31	1.79	.93	1.65	.55	.05		.42		.38	T	.09	.33		.24	.04	.02	.16	
																									.02	.02	.03	.03		.04		
* * *																																
WESTERN PACIFIC ISL.																																
NORTH OF 12 N																																
ANDERSEN AFB GUAM	5.30	.17	.15	2.21	.79	.05		.20	.12	T		.03	T			T	.12	.10		.08	.01	T			.05	.04	.04	.48	.46	.10	.09	
CLARK AFB LUZON	.35	T						T	.04											T	T										.31	
GUAM NAS																																
GUAM WSO	4.89	.14	.05	1.63	1.04	.12		.15	.27	.01		.07	.01			.05	.02		.05	.06	.02					.15	.18	.31	.43	.02	.10	
MANGILAO	3.42	.16	.05	.11	.80	.50	.01		.70	.01		.02			.04	.05							.02	.03	.03	.17	.28	.12			.32	
OTA																																
SAIPAN LGARM																																
WAKE ISLAND WSO AP	.33	T			.10			T			.02			.02	.12														.04		.01	
* * *																																
CAROLINE AND																																
MARSHALL ISLANDS																																
ANGUAR																																
ENIWEAT																																
FALALUP 3 ULITHI ATOLL																																
KABINGMARANGI ATOLL				4.70			1.50									.51	.60	.92	.10				.60	.12	.72	.11			.09	.02	.06	
KOROR WSO	22.46	2.42	.06	.23	6.20	.34	.01	.17	.13	.01	.30	3.08	.08	T	.51	3.73	.09	.03	.31		.24	.11	.04	.03	.09		.09	.02	.06	.41	.06	
KWAJALEIN MISSILE RM	6.31	.19	T	.01	.97	2.90	.14	.57	.24	.67	T		.09			.19			T				.01	.06	T		.03	T	.02	.20	.02	
LELE I KOSRAE																																
MAJURO WSO AP	5.25		.07	2.39	.22	.29	.08		.16	1.21	T	T	.06	T	.02	.14	.09		.31	.11	T			.02		.06		.02				
PETALANIT	7.62		.06	.40	.32	.15	3.18	.27	.18	.25	.18	.70					.83	.26	T			.08	.07	.39	.08	.02	.06	.04	.10			
MOKIL ATOLL																																
NORFOLK ISLAND																																
RODOLPH ISLAND	6.18		.09	.02	.20	.22	1.55	.10	.46	.70	.08	.38	.09			.08	.82	.12							.51	.03	.06	.16	.02	.17	.32	
SATAWAN ATOLL																																
TRUK, MOEN I, WSO AP	2.29	.01	.01		T	T		T	.01	.06	.01	.01	.05	T			1.92			T	.04	T				.01	.01	T	.08		.07	
WOLEAI ATOLL																																
YAP WSO AP	5.25	.01	.07	.62	1.92	1.04	.32	.04	T	T	.10	.12		.08	.35		.10	T		.06	T	.01	T	.01		.03	.36		.01			

SEE REFERENCE NOTES FOLLOWING STATION INDEX



# DAILY TEMPERATURES

HAWAII AND PACIFIC  
FEBRUARY 1978

STATION	DAY OF MONTH																																	AVERAGE
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31			
HAWAII																																		
ISLAND OF KAUAI																																		
KANALOHULUHULU 1075	MAX MIN	63 42	63 39	64 52	68 50	69 54	68 39	70 42	62 50	70 45	56 35	63 36	65 40	65 41	66 45	67 45	67 42	66 47	69 36	70 37	68 37	68 44	67 38	68 35	70 37	65 40	68 47	60 49				66.5 42.5		
KILAUEA POINT 1133	MAX MIN	80 63	81 64	83 65	86 67	86 67	86 67	86 66	84 69	78 63	79 68	82 67	81 70	82 67	81 69	81 70	81 67	81 64	83 64	79 66	87 67	86 67	84 68	83 66	85 67	85 68	85 67	73 61				82.5 66.4		
KOLEA LN (MARK) 940.1	MAX MIN	85 65	82 63	82 57	81 61	84 66	85 68	85 65	85 65	80 70	78 70	84 68	84 68	82 67	86 68	82 67	81 69	82 67	86 65	82 63	81 62	82 62	85 60	81 61	81 61	82 65	85 63	87 63	87 69				83.1 64.9	
LIHUE WSO 1020.1 AP	MAX MIN	81 61	82 58	82 62	84 60	84 60	83 63	83 64	80 67	78 67	80 64	81 63	81 64	82 67	81 65	82 69	80 66	83 64	82 62	78 59	82 60	78 64	82 62	81 61	80 59	81 61	84 59	85 61	79 65	79 61			81.6 62.7	
MANA 1026	MAX MIN	83 59	77 57	81 60		82 63	84 69	84 68	84 63	83 54	80 57	82 58	80 59	84 60	84 62		85 57	83 60	82 60	79 58	82 60	82 60	83 61	83 58	84 59	78 61	82 64	84 63	85 62				82.3 60.1	
NIU RIDGE 1035	MAX MIN	79 57	80 56	84 58			84 58	84 58	84 58	88 50	88 50			82 50	80 58	80 56	80 55	80 55			80 53	79 55	79 54	79 54	79 54			80 54	82 53				81.6 54.8	
WAIHAI LOWER 1054	MAX MIN	79 53	77 53	79 53	79 56	77 53	79 56	78 54	79 61	76 57	76 57	77 55	77 56	78 60	74 59	76 58	77 59	77 54	77 53	77 54	76 50	78 51	78 50		77 54	76 51	75 50	77 64	78 51	77 60	75 63		77.1 55.5	
ISLAND OF OAHU																																		
ALOHA STADIUM-HALAWA	MAX MIN	82 62	82 61	81 61			83 62	83 62	83 63	78 68	78 67			82 64	82 64	82 65	80 68	83 66	82 67			84 57	83 60	81 62	78 60			83 60	85 64				81.8 63.2	
B Y U LAIE 903.1	MAX MIN	80 61	86 60	82 61	82 63	83 60	81 59	82 60	82 64	79 69	80 70	82 67	82 67	83 67	82 69	81 71	82 71	82 66	83 64	82 63	78 62	82 59	80 60	80 63	80 69	81 75	81 75	82 60	80 64				81.5 65.0	
EWA PLANTATION 741	MAX MIN	81 59	83 57	81 57			82 60	83 58	82 59	82 65	80 60			83 60	84 63	82 62	83 63	85 62			82 56	80 55	81 58											
HONOLULU OBSERV 702.2	MAX MIN																						77 57	81 58	82 55	82 58	80 59	86 60	83 69					
HONOLULU WSO 703 AP	MAX MIN	83 63	82 60	84 64	81 59	82 62	83 67	85 60	82 65	81 70	82 67	84 65	84 71	86 66	86 71	86 66	84 61	80 59	81 60	80 60	80 60	83 62	80 64	83 60	80 60	82 63	81 63	79 66				82.4 64.0		
KANEHE MAUKA 781	MAX MIN	82 66	79 65	80 66	84 66	81 67	82 68	81 65	80 66	75 67	75 68	78 69	79 69	78 68	80 67	79 69	78 69	79 67	79 64	79 65	80 64	77 65	80 64	81 65	79 66	75 65	77 66	81 65	81 66	79 67			79.2 66.7	
MANOA LYON ARBORETUM	MAX MIN	82 59	81 58	80 58	82 60	81 60	81 61	82 60	81 60	76 64	78 65	82 64	82 64	81 65	82 64	80 66	80 65	80 64	79 60	79 59	81 57	80 58	81 58	81 63	79 58	72 64	80 58	80 59	82 64	83 64			80.0 61.3	
OPAEULA 870	MAX MIN	82 57	80 56	82 56	79 62	79 61	85 56	84 57	86 58	83 62	75 63	80 60	81 61	82 57	79 57	77 58	75 58	77 62	78 62	73 62	80 53	84 55	75 55	72 52	79 57	78 58	85 64	85 60				79.9 58.1		
WAIALEE 896.3	MAX MIN	78 65	79 64	78 65	79 66	80 66	80 65	80 66	79 66	77 65	76 63	79 66	80 66	79 67	80 70	80 66	78 66	83 66	77 66	76 60	83 61	76 60	77 61	81 65	76 68	77 63	78 64	79 68	80 69	82 62			78.9 65.5	
WAIALUA 847	MAX MIN	82 57	82 57	81 57	82 62	84 59	83 58	83 54	84 55	78 58	78 52	83 55	82 58	81 63	82 60	80 57	84 57	80 58	80 60	79 55	80 52	79 53	81 55	79 56	72 52	80 54	80 58	82 59	84 60				81.3 56.8	
WAIKIKI 717.2	MAX MIN	82 58	82 56	82 56	82 58	82 59	83 67	82 58	82 61	84 64	80 65	82 64	84 64	85 62	86 63	84 64	83 63	84 61	82 57	80 55	82 55	81 56	80 55	81 56	83 56	80 56	81 56	81 61	83 61				82.2 59.8	
WAIMANALO EXP FARM	MAX MIN	81 59	84 58	81 59	84 60	85 62	85 62	85 60	84 61	77 65	77 64	83 68	80 69	80 67	80 69	80 69	81 69	81 68	81 57	81 63	78 60	80 59	83 56	78 65	78 65	80 60	82 60	82 64	79 69				81.1 63.0	
ISLAND OF MOLOKAI																																		
MOLOKAI AP 524	MAX MIN																																	
ISLAND OF LANAI																																		
LANAI AIRPORT 656	MAX MIN																																	
LANAI CITY 672	MAX MIN	77 57	75 58	75 60			77 59	78 58	69 57	69 61	71 54			74 58	73 58	75 57	74 60	74 58	76 61	77 58	78 57	78 57	78 58	78 57	74 62	72 56		78 57	75 61				74.9 58.3	
ISLAND OF MAUI																																		
HALEAKALA RS 338	MAX MIN	58 35	56 36	56 42	54 41	61 44	63 41	62 38	59 37	60 41	62 49	72 44	68 35	56 33	54 37	58 37	60 38	63 38	60 38	61 39	62 42	63 38	59 37	59 40	58 40	63 43	63 46	66 39	62 42				60.6 39.6	
HANA AIRPORT 355	MAX MIN	80 65	82 61	76 60	83 62	81 62	82 61	82 61	81 60	78 66	79 70	79 72	82 70	80 69	81 67	81 66	80 68	80 69	80 62	78 63	82 65	80 65	79 63	80 66	79 63	79 60	80 60	81 59					80.4 64.1	
KAAHAPALI AP 453.1	MAX MIN	79 63	78 63	78 67	79 64	79 65	79 68	78 63	78 64	78 68	77 61	78 63	80 66	81 63	79 65	80 64	81 68	80 63	79 65	78 61	82 62	79 62	79 61	78 61	79 62	79 61	79 63	79 63	70 63				79.0 64.2	
KAHULUI WSO 398 AP	MAX MIN	81 60	82 60	81 62	82 60	82 62	82 65	82 63	78 60	79 60	84 57	84 65	85 66	85 62	85 64	84 72	86 69	83 64	80 62	79 67	81 60	81 62	81 62	82 62	82 62	83 59	82 59	82 60	83 68				82.2 63.5	
KAILUA 446	MAX MIN	76 60	77 60	77 59			80 62	79 63	78 64	78 66	77 68			73 63	76 64	75 64	75 61	75 61			78 60	78 59	77 61	75 61			78 64	78 67					76.8 62.5	
KEAWAKAPU BEACH 260.2	MAX MIN	82 60	80 62	82 63	80 60	81 61	81 62	80 60	81 57	82 57	83 56	83 60	84 62	83 60	85 59	84 62	86 62	84 62	85 62	84 60	84 61	85 60	84 61	82 60	85 61	85 58	82 59	82 62	86 64	83 64			82.9 60.8	

SEE REFERENCE NOTES FOLLOWING STATION INDEX

# DAILY TEMPERATURES

HAWAII AND PACIFIC  
FEBRUARY 1978

STATION		DAY OF MONTH																															AVERAGE	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
HAWAII																																		
KULA SANATORIUM 267	MAX MIN	70 52	71 53	70 54	67 53	71 54	72 55	73 54	72 55	78 49	71 50	71 51	70 54	71 53	72 54	71 50	73 51	72 55	70 54	71 51	72 52	71 55	72 56	75 54	71 48	71 49	71 53	77 55	70 56					71.6 52.9
LAHAINA 361	MAX MIN	82 63	82 64	80 67	80 62	82 62	82 64	83 65	83 63	83 61	80 61	84 60	81 62	84 61	85 64	83 64	86 65	84 67	86 62	84 61	82 62	85 63	83 65	83 63	82 62	81 62	86 65	84 64	82 66					82.9 63.2
WAILUKU 386	MAX MIN	80 61	82 61	85 61			87 58	86 59	82 60	73 62	76 63			83 65	81 66	81 65	79 68	80 65				80 63	78 63	79 62	78 64	78 65		81 62	78 67					80.4 63.0
* * *																																		
ISLAND OF HAWAII																																		
HAWAII VOLCANO NP HQ 54	MAX MIN	70 44	68 41	73 41	69 46	72 47	73 45	76 43	72 42	69 37	66 48	67 48	64 48	63 49	67 46	64 49		68 49	70 49	69 48	64 51	68 50	70 49	71 52	60 44	67 38	69 42	73 42	70					68.6 45.5
HILO WSO AP 87	MAX MIN	84 60	83 60	85 61	65 61	82 61	81 57	84 60	82 59	80 61	84 63	84 64	83 64	81 64	82 65	82 65	83 63	84 63	82 61	81 64	81 66	82 66	81 66	80 61	81 66	81 59	81 61	80 64	87 62					82.4 62.5
KAINALIU 73.2	MAX MIN	76 56	77 55	77 57	78 56	80 54	79 55	77 56	78 55	78 58	79 55	74 57	77 59	79 62	79 58	79 58	76 58	78 59	79 56	80 57	78 58	79 57	79 57	79 57	77 57	78 54	78 57	77 58	79 58					78.0 56.8
KAMUELA 192-2	MAX MIN	75 42	74 43	70 42			75 41	74 44	75 48	71 53	65 54			73 49	75 46		72 51				77 44	75 47	77 45	75 48	68 44			76 48	75 55					
KAPOHO BEACH 93.11	MAX MIN	85 61	85 61	85 61	81 61	84 63	86 63	82 60	86 62	82 65	81 69	85 71	87 67	84 67	82 66	81 64	82 64	83 67				85 62	84 65	84 65	80 64	82 58	85 60	83 63	79 63					83.3 63.7
KEAAU 92	MAX MIN	81 59	81 59	80 59			85 57	83 57	81 62	81 62	76 60			81 62	80 63	79 63	79 62	79 62				83 61	84 61	81 62	81 61	75 60		81 59	75 61					80.3 60.7
KOHALA MISSION 175.1	MAX MIN	78 59	80 61	78 64	79 66	80 62	80 59	79 59	81 60	80 64	74 65	77 63	78 63	77 64	78 63	79 63	78 67	78 62	80 60	80 62	74 61	79 62	79 61	77 62	76 61	77 60	78 60	79 60	78 64					78.3 62.1
KONA (KAILUA) 68-3	MAX MIN	82 67	81 66	82 67			82 66	82 68	82 65	81 67	82 68			83 66	83 68	83 67	83 68	83 68				84 65	82 64	81 65	81 65			82 64	82 67					82.2 66.4
KULANI CAMP 79	MAX MIN	61 32	63 34	65 37	64 36	65 39	70 42	67 42	64 45	63 42	62 32	64 32	63 53	58 42	62 48	56 42		64 39	65 39	64 42	60 39	65 55	55 50	65 50	55 34	54 37	66 38	68 40	51 39					62.4 40.8
MAUNA LOA SLOPE OBS	MAX MIN	47 30	45 30	44 30	49 30	50 32	55 38	57 38	58 37	57 37	58 38	54 34	52 32	49 31	44 30	48 30	49 31	49 28	53 33	54 35	54 36	50 37	48 31	47 30	51 35	55 35	54 39	56 40	57 42					51.6 33.9
MOUNTAIN VIEW 91	MAX MIN	76 53	78 52	78 53			79 53	81 53	81 56	76 55	72 54			76 58	75 60	76 59	76 59	76 56				79 56	76 55	77 54	72 55			79 50	78 56					76.8 55.2
NAALEHU 14	MAX MIN	75 59	78 55	74 55	77 62	78 59	78 56	82 58	77 58	79 61	79 63	74 59	75 61	79 62	79 62	78 64	79 64	80 59	77 59	78 57	80 58	78 60	80 60	77 59	78 60	80 59	81 56	80 55	81 58					78.0 59.2
OOKALA 223	MAX MIN	78 61	77 63	79 62	79 63	80 64	80 62	78 62	80 62	75 57	75 56	78 56	76 56	77 56	79 54	79 54	75 55	77 54	79 55	78 54	71 55	78 53	79 54	78 56	76 55	76 55	77 55	79 55	76 56					77.5 62.4
OPIHIHALE 2 24.1	MAX MIN	77 53	76 54	77 58	79 56	79 53	75 54	79 54	80 55	79 61	78 56	79 56	79 56	78 56	77 54	79 54	79 55	81 54	81 55	77 54	79 55	80 53	80 54	80 56	77 55	77 55	80 55	78 57					78.5 55.1	
PAHALA 21	MAX MIN	81 60	81 58	80 58			82 58	80 58	82 60	85 55				80 62	79 63	76 60	80 60	81 61				81 59	78 59	80 60	82 60	77 59		80 57	80 61					80.3 59.2
PUUKOHOLA HEIAU 98.1	MAX MIN	82 62	83 62	84 64	85 64	85 64	78 63	84 59	88 59	87 62	84 59		87 66	86 64	86 64	85 66	86 64	87 63	85 61	89 61	86 62	83 61	78 63	87 66	89 61	84 64	89 63	84 64	86 64					85.1 62.9
SOUTH KONA 2-31	MAX MIN	77 51	75 49	82 51	77 59	78 52	78 51	76 51	77 50	77 51	75 54	75 55	72 58	72 55	76 59	72 54	73 54	74 56	77 56	75 53	72 55	75 53	74 53	74 53	72 53	76 48	72 49	77 52	73 58					75.1 53.3
UPOLU POINT USCG 159.2	MAX MIN	80 65	80 64	80 66	81 68	81 67	81 65	80 71	81 67	81 64	79 66	82 65	82 66	83 68	83 66	82 67	81 70	82 68	81 66	82 71	81 67	83 66	82 66	82 65	81 65	81 58	81 67	81 69	83 71					81.3 66.6

SEE REFERENCE NOTES FOLLOWING STATION INDEX

# DAILY TEMPERATURES

HAWAII AND PACIFIC  
FEBRUARY 1978

STATION	DAY OF MONTH																																	AVERAGE
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31			
PACIFIC																																		
EAST OF 180TH MERIDIAN																																		
CANTON ISLAND	MAX MIN	89 81	90 81	90 80	90 80	91 80	90 81	90 81	90 81	90 81	90 81	90 81	90 82	90 82	90 82	90 82	91 81	83 80			88 82	88 82	88 80	89 80	89 81		90 80	91 78				89.4 80.8		
JOHNSTON IS WSO AP	MAX MIN	81 74	80 75	80 73	81 70	80 73	81 73	81 76	81 76	81 76	82 76	80 73	81 76	80 75	81 74	81 72	80 76	81 75	80 75	81 75	79 75	80 76	81 75	82 74	83 75	82 76	81 76	83 76				80.9 74.7		
LEONE	MAX MIN	94 85	93 84	94 86	94 86	94 85	94 85	94 87	88 81	88 81	90 83	91 85	91 86	91 86	92 88	89 80	88 84	94 88	93 86	94 86	92 84	93 84	93 84	93 84	92 84	92 85	93 85	90 80				92.0 84.5		
FRENCH FRIGATE SHOALS	MAX MIN																																	
MIDWAY SAND ISLAND	MAX MIN	70 61	73 65	70 62	72 64	68 60	68 60	67 60	70 58	70 62	68 58	70 56	70 60	72 61	72 64	71 64	72 63	68 57	72 60	74 57	68 59	69 60	73 61	75 65	71 64	68 54	73 54	66 56	66 51				70.2 59.9	
PAGO PAGO WSO AP	MAX MIN	88 77	88 76	88 76	88 79	88 81	88 76	88 76	83 74	85 73	87 74	86 75	85 76	86 76	86 77	87 79	87 77	89 76	89 74	88 77	88 79	87 79	87 79	88 78	85 74	88 73	89 71	87 70				87.0 76.1		
WESTERN PACIFIC ISL. NORTH OF 12 N																																		
ANDERSEN AFB GUAM	MAX MIN	79 71	80 71	75 69	78 69	76 72	78 72	78 71	79 71	79 73	80 75	81 75	81 74	80 76	79 72	81 72	79 72	81 73	81 75	80 76	81 75	81 74	79 71	79 74	80 72	80 75	79 74	81 75				79.6 72.9		
CLARK AFB LUZON	MAX MIN	88 70	86 70	84 68	84 66	86 66	84 66	86 72	88 72	88 68	93 70	90 72	90 70	90 66	88 73	90 66	86 72	84 72	84 70	86 73	86 66	88 70	88 73	90 72	88 72	90 70	84 73	88 68	88 72				86.9 70.1	
GUAM NAS	MAX MIN																																	
GUAM WSMO	MAX MIN	82 64	85 72	78 69	81 69	80 70	81 71	83 69	82 70	82 72	82 73	83 73	83 71	83 73	81 70	84 68	84 69	83 67	84 72	84 74	85 72	84 70	84 71	84 70	81 71	83 71	82 74	82 72	84 69				82.6 70.6	
SAIPAN LORAN	MAX MIN																																	
WAKE ISLAND WSO AP	MAX MIN	83 71	83 69	83 70	82 70	79 68	80 70	81 71	81 70	82 69	81 72	81 71	83 72	81 72	84 70	84 73	83 72	83 70	85 73	84 73	84 71	84 71	81 69	83 70	83 70	82 73	81 71	84 74	84 73				82.5 71.0	
CAROLINE AND MARSHALL ISLANDS																																		
ENIWETAK	MAX MIN																																	
FALALOP I ULITHI ATOLL	MAX MIN																																	
KAPINGAMARANGI ATOLL	MAX MIN		87 76	85 75	89 79	89 79	89 78	89 78	89 78		89 79			89 78	90 72	90 70	89 75			91 72	89 74	89 75	87 70	86 76		89 75	90 78	89 75	89 75				88.7 75.6	
KOROR WSO	MAX MIN	84 73	88 74	88 73	88 72	87 74	87 74	87 74	87 74	87 74	88 76	77 73	87 74	88 74	86 75	82 72	86 72	88 73	87 73	87 75	88 77	87 75	88 74	87 74	88 76	84 75	88 76	84 73				86.1 74.1		
KWAJALEIN MISSILE RGN	MAX MIN	85 73	86 74	85 77	86 76	83 75	83 77	85 77	87 77	85 75	86 78	86 80	86 76	86 79	87 79	85 75	86 79	86 79	86 78	86 79	87 79	86 77	87 79	86 78	87 77	86 78	86 75	86 78				85.8 77.1		
LELE I KOSRAE	MAX MIN																																	
MAJURO WSO AP	MAX MIN	86 77	86 76	82 72	86 75	86 74	87 76	87 77	83 75	83 74	85 77	86 78	86 76	86 76	87 77	87 77	86 74	86 78	87 75	86 76	87 76	87 76	86 75	87 77	87 78	87 78	87 76	88 76				86.2 75.9		
METALANIM	MAX MIN	84 79	84 74	84 74	84 74	83 77	80 74	83 74	84 76	88 76	88 77	87 79	84 76	87 77	88 72	88 72	89 75	85 78	86 78	87 79	86 74	85 74	85 74	85 75	86 76	85 75	88 76	87 74				85.4 75.8		
PONAPE WSO	MAX MIN	87 78	87 74	87 76	82 74	83 75	80 73	85 73	89 75	89 75	85 77	83 76	87 77	87 78	89 72	89 72	85 75	89 77	89 79	88 79	88 78	89 75	88 74	89 75	87 76	89 77	87 70	88 74				86.9 75.6		
SATAWAN ATOLL	MAX MIN																																	
TRUK. MOEN I. WSO AP	MAX MIN	86 77	86 78	85 78	85 79	86 77	84 77	85 77	86 78	85 78	86 78	86 78	87 78	86 78	86 79	86 78	86 76	83 76	86 79	86 77	86 76	86 78	86 77	86 77	86 76	88 77	86 77	87 79	86 77				85.9 77.5	
WOLEAI ATOLL	MAX MIN																																	
YAP WSO AP	MAX MIN	86 74	86 74	82 74	85 72	83 71	85 72	85 73	86 68	84 74	86 72	87 73	87 76	88 75	82 72	85 72	86 72	87 72	86 73	87 76	87 77	87 76	85 76	86 74	88 73	88 77	86 76	85 73	87 73				85.8 73.6	

SEE REFERENCE NOTES FOLLOWING STATION INDEX

# EVAPORATION AND WIND

HAWAII AND PACIFIC  
FEBRUARY 1978

STATION		DAY OF MONTH																															TOTAL OR AVG.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
HAWAII																																	
* * *																																	
ISLAND OF KAUAI																																	
LIHUE WSO 1020.1 AP	EVAP	.17	.22	.24	.24	.25	.26	.23	.29	.38	.30	.27	.18	.31	.30	.31	.16	.33	.19	.21	.25	.21	.24	.24	.23	.23	.26	.15	.29			6.93	
	WIND	78	67	101	105	112	130	84	127	216	218	85	110	142	117	165	160	120	81	101	100	86	90	110	153	94	98	88	131			3269	
	MAX	80	82	79	80	80	82	82	79	78	75	81	81	82	80	81	81	82	80	75	79	80	81	79	77	79	81	79	80			79.8	
	MIN	56	56	53	54	53	55	56	57	56	58	57	58	58	59	59	58	58	55	53	54	53	54	56	53	55	53	55	59			55.8	
* * *																																	
ISLAND OF OAHU																																	
HONOLULU OBSERV 702.2	EVAP	.30	.30	.22	.25	.33	.36	.34	.35	.40	.37	.35	.30	.35	.37	.35	.39	.32	.03	.39	.30	.38	.38	.42	.38	.48	.35	.45				9.56	
	WIND	24	30	26	35	30	41	38	35	46	43	31	38	30	26	26	26	28	33	21	30	30	27	30	26	48	35	29	54			916	
	MAX	85	83	78	84	65	85	86	86	85	84	83	74	82	88	86	86	87	87	82	84	87	87	83	84	83	86	81	88			84.3	
	MIN	62	60	60	62	62	62	61	61	60	59	59	61	63	69	58	62	63	62	63	59	59	60	60	62	58	58	61	64			61.1	

SEE REFERENCE NOTES FOLLOWING STATION INDEX

# EVAPORATION AND WIND

HAWAII AND PACIFIC  
FEBRUARY 1978

STATION		DAY OF MONTH																															TOTAL OR AVG.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
PACIFIC																																	
■ ■ ■ EAST OF 180TH MERIDIAN																																	
JOHNSTON IS WSO AP	EVAP	.26	.32	.33	.38	.28	.42	.45	.35	.42	.24	.23	.20	.37	.33	.32	.30	.37	.36	.39	.25	.34	.36	.31	.34	.30	.31	.39	.39			9.31	
	WIND	149	125	122	76	55	116	113	219	257	225	183	174	170	197	226	242	193	219	202	148	166	166	180	156	124	142	147	78		4570		
	MAX	85	84	85	88	85	87	84	84	82	85	82	84	86	84	83	82	85	83	84	83	84	87	84	89	89	88	89	87		85.1		
	MIN	67	67	66	66	67	67	68	67	68	69	70	69	69	69	69	68	68	67	68	68	69	69	67	68	67	69	68	68		67.9		
■ ■ ■ WESTERN PACIFIC ISL. NORTH OF 12° N																																	
GUM WSMO	EVAP	.21	.24	.02	.15	.21	.45	.24	.16	.22	.20	.22	.25	.23	.27	.26	.18	.15	.19	.27	.34	.15	.24	.25	.16	.17	.19	.21	.27		6.10		
	WIND	113	113	100	161	148	165	130	129	165	174	177	138	127	133	99	69	81	123	125	137	101	129	109	123	156	118	129	104		3576		
	MAX	86	91	84	83	80	87	88	87	81	81	82	84	85	81	82	86	80	84	84	84	83	83	85	83	81	81	80	83		83.5		
	MIN	70	69	71	70	69	65	66	67	64	66	67	63	67	66	70	67	66	67	68	66	66	66	66	65	67	66	66	69	67		67.0	

SEE REFERENCE NOTES FOLLOWING STATION INDEX



## STATION INDEX

HAWAII AND PACIFIC  
FEBRUARY 1978

STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES				OBSERVER
								TEMP.	PRECIP.	EVAP.	SPECIAL (SEE NOTES)	
HAWAII												
ISLAND OF KAUAI												
ALEXANDER RESV. 983	0140	02	KOLOA	2	21 57	159 32	1610				C	MCBRYOE SUGAR CO.
ANAHOLA 1114	A 0145	01	KAWAIIHAU	1	22 08	159 18	180				C	LIHUE PLANTATION CO
BRYOESWOOD STA 985	A 0240	02	KOLOA	2	21 56	159 32	720	7A				MC BRYOE SUG CO LTO
EAST LAWA 934	A 0456	02	KOLOA	2	21 55	159 30	440	7A				MC BRYOE SUG CO LTO
ELEELE 927	A 0470	02	KOLOA	2	21 54	159 35	150	6A				MC BRYOE SUG CO LTO
HALAULA 1110	A 0935	01	KAWAIIHAU	1	22 07	159 19	253	7A				LIHUE PLTN CO LTO
HALENANAHU 1006	A 1038	02	LIHUE	2	21 58	159 26	490	8A				LIHUE PLANTATION CO
HANAHANAPUNI 1055.2	1140	02	KAUAI	2	22 03	159 25	600				C	LIHUE PLANTATION CO LTO
HANAIEI TUNNEL 1053	A 1170	01	KAWAIIHAU	1	22 05	159 28	1218	MZ				LIHUE PLTN CO LTO
HUKIPO 945	2161	03	WAIIMEA	3	21 59	159 41	800	8A				KEKAHA SUGAR CO LTO
ILIILILUA INTAKE 1050	A 2222	02	LIHUE	2	22 02	159 28	1050	VAR				LIHUE PLTN CO LTO
INTAKE WAINIHA PC 1086A	2227	01	HANAIEI	1	22 09	159 34	690	W1				MC BRYOE SUG CO LTO
KANALOAHULUHULU 1075	3099	03	WAIIMEA	3	22 08	159 40	3600	7A	7A		C	STATE DIVISION OF PARKS
KANEHA RESERVOIR 1092	A 3104	01	KAWAIIHAU	1	22 08	159 23	830	7A				LIHUE PLANTATION
KAPAA STABLES 1104	A 3159	01	KAWAIIHAU	1	22 05	159 20	175	7A			C	LIHUE PLTN CO LTO
KEALIA 1112	A 3982	01	KAWAIIHAU	1	22 06	159 19	9	7A				LIHUE PLTN CO LTO
KEKAHA 944	4272	03	WAIIMEA	3	21 58	159 43	9	8A			C	KEKAHA SUGAR CO LTO
KILAUEA 1134	A 4561	01	HANAIEI	1	22 13	159 25	320	7A			C	NICK RAPOZO
KILAUEA POINT 1133	4568	01	HANAIEI	1	22 14	159 24	180	7A				MRS ELIZABETH MACIOLEK
KOLO 1033	4735	03	WAIIMEA	3	22 04	159 46	36	7A				KEKAHA SUGAR CO LTO
KOLOA 936	A 4742	02	KOLOA	2	21 55	159 28	240		8A			MCBRYOE SUGAR CO
KOLOA LN (MAK) 940.1	4748	01	KAUAI	2	21 52	159 27	52	7A	7A			AUSCG LORAN STATION
KOLOA MAUKA 994	A 4750	02	KOLOA	2	21 57	159 29	640	7A				MCBRYOE SUGAR COMPANY
KUKUIULA 935	A 4950	02	KOLOA	2	21 54	159 30	100	6A				MC BRYOE SUG CO LTO
LIHUE VARIETY ST 10621A	5560	02	LIHUE	2	22 01	159 23	380	7A			C	LIHUE PLANTATION CO LTO
LIHUE 1020	A 5575	02	LIHUE	2	21 59	159 22	207	7A				LIHUE PLTN CO LTO
LIHUE WSO 1020.1 AP	R 5580	02	LIHUE	2	21 59	159 21	103	M10	M10	7A	C J	NATL WEATHER SERVICE
MAKAWELI 965	A 5864	03	WAIIMEA	3	21 55	159 38	140	7A				OLOKELE SUGAR CO
MANA 1026	6082	03	WAIIMEA	3	22 02	159 46	20	8A	8A			KEKAHA SUGAR CO LTO
MOHIHI UPR CROSS 1083	A 6433	01	WAIIMEA	3	22 07	159 36	3500	M10				U S GEO SURVEY
MOLOAA 1145	A 6529	01	KAWAIIHAU	1	22 11	159 20	330		7A			THEODORE JAVELLANA JR
MOUNT WAIALEALE 1047	R 6565	03	WAIIMEA	2	22 04	159 30	5148		M10			U. S. GEO. SURVEY
NIU RICE 1035	6850	03	WAIIMEA	3	22 02	159 44	1250	6A	6A			KEKAHA SUGAR CO LTO
N WAILUA OITCH 1051	A 6888	02	LIHUE	2	22 04	159 28	1110	7A				LIHUE PLTN CO LTO
N WAILUA RIVER 1055	A 6893	02	KIHUE	2	22 04	159 26	650	MZ				LIHUE PLTN CO LTO
PH WAINIHA 1115	8155	01	HANAIEI	1	22 12	159 34	101	6A			C	MC BRYOE SUG CO LTO
PRINCEVILLE RANCH 1117	8165	01	HANAIEI	1	22 13	159 29	295	9A			C	PRINCEVILLE RANCH INC
PUEHU RICE 1040	8205	03	WAIIMEA	3	22 01	159 42	1660	8A				KEKAHA SUGAR CO LTO
PUHI 1013	A 8217	02	LIHUE	2	21 58	159 24	329	8A				LIHUE PLANTATION CO
WAIHAWA 930	A 8941	02	KOLOA	2	21 54	159 34	215	7A			C	MC BRYOE SUG CO LTO
WAIHAI LOWER 1054	8958	02	LIHUE	2	22 01	159 27	565	6A	6A			LIHUE PLTN CO LTO
WAIHAI UPPER 1052	8966	02	LIHUE	2	22 01	159 28	780	6A				LIHUE PLTN CO LTO
WAIHAWA 943	9253	03	WAIIMEA	3	21 59	159 43	10	8A				KEKAHA SUGAR CO LTO
WAILUA KAI 1065	A 9467	02	LIHUE	2	22 02	159 21	50	7A				LIHUE PLANTATION
WAIIMEA 947	9629	03	WAIIMEA	3	21 58	159 41	20	8A				KEKAHA SUGAR CO.
WEST LAWA 931	A 9955	02	KOLOA	2	21 54	159 31	210	6A				MC BRYOE SUG CO LTO
ISLAND OF OAHU												
AHUIMANU LOOP 839.12	0055	01	KOOLAUPOKO	1	21 26	157 51	320				C	OON MITCHELL
ALOHA STADIUM-HALAWA	0172	03	OAHU	3	21 23	157 56	40	8A	8A			ALOHA STADIUM
BERETANIA PUMPING STA	0211	02	HONOLULU	2	21 19	157 51	20		9A			BOARD OF WTR SUPPLY
B Y U LAIE 903.1	0240	01	KOOLAUPOKO	1	21 39	157 56	20	12M	12M			B Y U-HAWAII CAMPUS
CAMPBELL IND PK 702.5	0248	02	OAHU	3	21 19	158 07	10		8A			CHEVRON U S A INC
CAMP 84 807	A 0300	03	EWA	3	21 26	158 04	760	6A			C	OEL MONTE CORPORATION
COCONUT ISLAND 840.1	0350	01	KOOLAUPOKO	1	21 26	157 47	15		8A			H INST MARINE BIOLOGY
DOWSETT HIGHLOS 780.8	0438	02	HONOLULU	2	21 21	157 50	565				C	J.L. BANNING
EWA PLANTATION 741	0507	03	EWA	3	21 21	158 02	5	9A	7A			OAHU SUGAR COMPANY
HALAWA SHAFT 771.2	0964	02	HONOLULU	2	21 23	157 54	170				C	BOARD OF WATER SUPPLY
HAWAII KAI CRSE 724.19	1308	02	OAHU	2	21 18	157 39	21				C	HAWAII KAI GOLF COURSE
HELENAND INTAKE 881	A 1384	05	WAIALUA	5	21 33	158 00	1274		W1		C	WAIALUA SUGAR CO. INC.
HOKULOA 725.2	A 1540	03	EWA	3	21 24	158 06	2220				C	H. V. VON HOLT
HONOLULU OBSERV 702.2	1918	03	EWA	3	21 19	158 00	5	9A	9A	9A		NATIONAL WEATHER SERV
HONOLULU WSO 703 AP	1919	02	HONOLULU	2	21 20	157 55	7	M10	M10		C J	NATL WEATHER SERVICE
KALAKEI 724.6	2269	02	HONOLULU	2	21 18	157 43	10				C	MRS. MILLIE ZAPATA
KAENA POINT 841.3	2410	04	WAIALUA	4	21 34	158 15	1240		9A			U S AIR FORCE
KAHANA 883	A 2462	01	KOOLAULOA	1	21 31	157 54	800		W1			WAIHOLE WTR CO LTO

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								TEMP.	PRECIP.	EVAP.	SPECIAL (SEE NOTES)	
ISLAND OF OAHU												
KAHUKU 912	A	2570	01	KOOLAULOA	1 21 42	157 59	15				C	KIULIMA HOTEL
KAILUA FIRE STA 791.3		2683	01	KOOLAUPOKO	1 21 24	157 45	10		8A		C	KAILUA FIRE STATION
KALIHI RES SITE 777	R	2960	02	HONOLULU	2 21 23	157 50	910		M10			BOARD OF WTR SUPPLY
KANEHE MAUKA 781		3113	01	KOOLAUPOKO	1 21 25	157 49	325	7A	7A			STATE HOSPITAL
KAPALAMA 773	A	3268	02	HONOLULU	2 21 21	157 52	614		8A			KAMEHAMEHA SCHOOLS
KAWAIHAPAI 841	A	3734	05	WAIALUA	5 21 35	158 11	40		7A			WAIALUA SUGAR CO. INC.
KEMOO CAMP 8 855	A	4318	05	WAIALUA	5 21 33	158 05	725		7A			WAIALUA SUGAR CO. INC.
KOOLAU DAM 833	A	4766	05	WAIHAWA	5 21 30	157 58	1160		8A			C & F OFFICER HEQG
LULUKU 781.7		5655	01	KOOLAUPOKO	1 21 24	157 49	240				C	NATIONAL WEATHER SERV
MAKAHA PUMP 800.2	A	5782	04	OAHU	4 21 29	158 12	400		8A		C	CAPITAL INVESTMENT CO.
MAKAKILO 730.1		5789	03	OAHU	3 21 21	158 06	300		6A			NEAL ADAMS
MANOA LYON ARBORETUM		6128	02	OAHU	2 21 20	157 48	500	8A	8A			LYON ARBORETUM
MANOA TUNNEL 2 716	R	6130	02	HONOLULU	2 21 20	157 48	650		M10			BOARD OF WTR SUPPLY
MAUNAWILI 787.1		6222	01	KOOLAUPOKO	1 21 21	157 46	395				C	EXP STN H 5 P A
MOANALUA 770		6395	02	HONOLULU	2 21 21	157 54	20		9A			JOHN A ROXBURGH
MOUNT KAALA 844		6553	04	WAIANAE	4 21 31	158 09	4015				C	FEDERAL AVIATION ADM
NUUANU RES 4 783		6928	02	HONOLULU	2 21 21	157 49	1048		M10			BOARD OF WTR SUPPLY
NUUANU RESERV 5 775	A	6933	02	HONOLULU	2 21 21	157 50	410		W1			BOARD OF WTR SUPPLY
OPAEULA 870	A	7150	05	WAIALUA	5 21 34	158 02	1060	7A	7A		C	WAIALUA SUGAR CO. INC.
PAIKO OR 723.4		7540	02	HONOLULU	2 21 17	157 44	10		6P			D L GRUBB
PALI GOLF COURSE 788.1		7656	01	OAHU	1 21 23	157 47	480		10A			CC DEPT PK5 RECREATION
PALOLO VALLEY 718	R	7664	02	HONOLULU	2 21 20	157 46	995		M10			BOARD OF WTR SUPPLY
PAUOA FLATS 784	R	7810	02	HONOLULU	2 21 21	157 48	1640		M10			BOARD OF WTR SUPPLY
PEARL COUNTRY CL 760.2		7942	03	OAHU	3 21 23	157 56	120				C	PEARL COUNTRY CLB OF HA
PUNALUU PUMP 905.2		8314	01	KOOLAULOA	1 21 35	157 54	20				C	MRS OAVIO DELAO
PUNCHBOWL CRATER 709	A	8316	02	HONOLULU	2 21 19	157 51	360		8A			NAT MEM CEMETERY
PUPUKA HEIGHTS 896.4		8342	01	WAIALUA	1 21 39	158 02	900				C	JACK N. WHEELER
PUU MANAWAHUA 725.6		8500	03	OAHU	3 21 23	158 06	1690		8A			HUGH HAMILTON
TANTALUS 2 780.5		8738	02	HONOLULU	2 21 20	157 50	1325		7A			R. E. WHITE
UNIV OF HAWAII 713	A	8815	02	HONOLULU	2 21 18	157 49	79		8A			DEPT OF GEOSCIENCE
UPPER WAIHAWA 874.3		8838	05	OAHU	5 21 31	158 01	1115		6A			W B RUTHERFORD
WAIHAWA DAM 863	A	8945	05	WAIHAWA	5 21 30	158 03	854		7A		C	WAIALUA SUGAR CO. INC.
WAIHOLE 837	A	8964	01	KOOLAUPOKO	1 21 28	157 53	745		8A		C	WAIHOLE WTR CO LTD
WAIALAE KAHALA 715		9185	02	HONOLULU	2 21 17	157 47	40		7A			SPENCER TINKER
WAIALEE 896.3		9190	01	KOOLAULOA	1 21 41	158 02	33	8A	8A			WAIALEE LIVESK RES FARM
WAIALUA 847	A	9195	05	WAIALUA	5 21 35	158 07	32	7A	7A		C	WAIALUA SUGAR CO. INC.
WAIANAE 798.2	A	9231	04	WAIANAE	4 21 27	158 11	10		7A			BEN MAYES
WAIHAWA 836	A	9261	03	EWA	3 21 28	157 56	800		M0			WAIHOLE WTR CO LTD
WAIKANE 885	A	9340	01	KOOLAUPOKO	1 21 30	157 53	760		W1			WAIHOLE WTR CO LTD
WAIKIKI 717.2		9397	02	HONOLULU	2 21 16	157 49	10	8A	8A			HONOLULU ZOO
WAILUPE VLY SCH 723.6		9500	02	HONOLULU	2 21 18	157 45	180				C	WAILUPE VALLEY SCHOOL
WAIMANALO EXP FARM		9523	01	KOOLAUPOKO	1 21 20	157 43	60	7A	7A			WAIMANALO EXP FARM
WAIMANALO NONOKI 795.2		9534	01	OAHU	1 21 20	157 43	120				C	WAIMANALO EXP FARM
WAIKAE 892	A	9593	05	WAIALUA	5 21 38	158 04	330		7A		C	WAIALUA SUGAR CO INC
WAIPAHU 750	A	9738	03	EWA	3 21 23	158 01	59		8A			WAIHOLE WATER COMPANY
WILHELMINA RISE 721	R	9980	02	HONOLULU	2 21 18	157 47	1100		M10			BOARD OF WTR SUPPLY
ISLAND OF MOLOKAI												
KALAUPAPA 563	A	2896	01	MOLOKAI	1 21 12	156 59	30		8A			KALAUPAPA SETTLEMENT
KAUNAKAKAI 536		3541	01	MOLOKAI	1 21 06	157 01	12		7A			MOLOKAI RANCH LTD
KAUNAKAKAI MAUKA 536.5		3547	01	MOLOKAI	1 21 06	157 01	70				C	MOLOKAI GENERAL HOSP.
KEONELELE PENS 551	A	4394	01	MOLOKAI	1 21 12	157 12	560		VAR			MOLOKAI RANCH. LTD.
KUALAPUU 534	A	4778	01	MOLOKAI	1 21 09	157 02	825		7A		C	OEL MONTE CORPORATION
MAUNALO 511	A	6190	01	MOLOKAI	1 21 08	157 13	1070		9A			MOLOKAI RANCH COMPANY
MOLOKAI AP 524		6534	01	MOLOKAI	1 21 09	157 06	450	8A	8A			ALOHA AIRLINES
PUU O HOKU RANCH 542.1		8549	01	MOLOKAI	1 21 09	156 44	700		6A		C	CHARLIE APIA (FOREMAN)
WAIKOLU 540	A	9404	01	MOLOKAI	1 21 08	156 55	3550		W1			MOLOKAI RANCH COMPANY
ISLAND OF LANAI												
KANEPUU 690	A	3130	01	LAHAINA	1 20 52	157 00	1650		W1			U S O A
KAUMLAPAU HAR80R 658		3461	01	LAHAINA	1 20 47	157 00	30		8A			OOLE COMPANY
LANAI AIRPORT 656		5275	01	LAHAINA	1 20 48	156 57	1300	8A	8A			HAWAIIAN AIR
LANAI CITY 672	A	5286	01	LAHAINA	1 20 50	156 55	1620	7A	7A			OOLE COMPANY
LANAIHOLE 684	A	5301	01	LAHAINA	1 20 49	156 53	3370		W1			U S O A
MAHANA 694	A	5704	01	LAHAINA	1 20 52	156 55	1430		M0			U S O A
MALAEUA 676	A	6012	01	LAHAINA	1 20 46	156 55	1150		W1			U S O A
WAIKAEKUA 685	A	9021	01	LAHAINA	1 20 47	156 52	2000		WM			KOELE COMPANY
ISLAND OF MAUI												

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ISLAND OF MAUI														
FIELD 46 474	0541	04	LAHAINA	4	20 59	156 38	1050					C	MAUI LAND-PINEAPPLE CO	
HAELAAU 477	A 0790	04	LAHAINA	4	20 57	156 36	2980		MZ				MAUI LAND-PINEAPPLE CO	
HALEAKALA 8 E S 434	A 0995	01	MAKAWAO	1	20 51	156 18	2100		7A				U OF H AGRIC EXP STA	
HALEAKALA RANCH 432	A 0999	01	MAKAWAO	1	20 50	156 19	1850		8A				HALEAKALA RANCH CO	
HALEAKALA RS 338	1004	02	MAKAWAO	2	20 46	156 15	7030	8A	8A				HALEAKALA NAT PARK	
HALIIMAILE 423	A 1075	01	MAKAWAO	1	20 52	156 21	1070		3A				MAUI LAND-PINEAPPLE CO	
HAMAKUAPOKO 485	1086	01	MAKAWAO	1	20 55	156 21	320		5A				HAWAIIAN COM & SUG CO	
HANA 354	A 1122	01	HANA	1	20 45	155 59	120		8A			C	HARRY HASEGAWA	
HANA AIRPORT 355	1125	01	HANA	1	20 48	156 01	61	8A	8A				ROYAL HAWAIIAN AIRLINES	
HOLUA CABIN 259.5	A 1552	02	MAKAWAO	2	20 45	156 13	6930		MO				HALEAKALA NATL PARK RGS	
HONOKOHU 480	A 1882	04	LAHAINA	4	20 58	156 36	870		MO				MAUI LAND-PINEAPPLE CO	
HONOKOHU 493	A 1887	04	LAHAINA	4	21 00	156 39	135		6A				MAUI LAND-PINEAPPLE CO	
HONOLUA FIELD 49 494	A 1914	04	LAHAINA	4	21 01	156 38	125		MZ				MAUI LAND-PINEAPPLE CO	
HONOMANU GULCH 341	A 1935	01	MAKAWAO	1	20 47	156 14	6280		MO				HALEAKALA RANCH CO	
IAO NEEDLE 387.2	2208	03	WAILUKU	3	20 53	156 33	1080					C	STATE DIVISION OF PARKS	
KAAHAPALI AP 453.1	2307	04	LAHAINA	4	20 56	156 42	8	8A	8A				AMFAC PROPERTIES INC	
KAHAKULOA MAUKA 482.3	2453	03	WAILUKU	4	20 59	156 33	650					C	EDWARD CHANG	
KAHOMA INTAKE 374	A 2552	04	LAHAINA	4	20 54	156 38	2000		WI				PIONEER MILL CO LTD	
KAHULUI WSO 398 AP	R 2572	03	WAILUKU	3	20 54	156 26	48	MIO	MIO			C J	NATL WEATHER SERVICE	
KAILIILI 436	A 2630	01	MAKAWAO	1	20 51	156 16	2520		MO				E MAUI IRR CO LTD	
KAILUA 446	2679	01	MAKAWAO	1	20 54	156 13	700	7A	7A				E MAUI IRR CO LTD	
KAUULA INTAKE 375	A 3433	04	LAHAINA	4	20 53	156 38	1585		WI				PIONEER MILL CO LTD	
KAUPO RANCH HOUSE 259	3576	02	HANA	2	20 39	156 08	1020					C	KAUPO RANCH	
KEAHUA 410	3910	03	MAKAWAO	3	20 52	156 23	480		5A				HAWAIIAN COM & SUG CO	
KEANAE 346	A 4091	01	HANA	1	20 50	156 10	980		MO				E MAUI IRR CO LTD	
KEAWAKAPU BEACH 260.2	4193	02	MAKAWAO	2	20 42	156 27	20	8A	8A			C	ALLEN L CORELL	
KIHEI 311	4489	03	WAILUKU	3	20 47	156 27	90		7A				HAWAIIAN COM & SUG CO	
KIPAHULU 258	4634	01	HANA	1	20 39	156 04	260		7A				HANA RANCH-KIPAHULU SEC	
KUKUI 380	A 4887	04	LAHAINA	4	20 54	156 35	5788		MZ				MAUI LAND-PINEAPPLE CO	
KULA SANATORIUM 267	5006	02	MAKAWAO	2	20 42	156 22	3004	7A	7A				KULA SANATORIUM	
LAHAINA 361	5177	04	LAHAINA	4	20 53	156 41	45	7A	7A			C	PIONEER MILL CO LTD	
LAUNIUPOKO INTAKE 376	A 5404	04	LAHAINA	4	20 51	156 37	1280		WI				PIONEER MILL CO LTD	
LAUNIUPOKO VILLAGE 372A	5408	04	LAHAINA	4	20 51	156 39	220		7A				PIONEER MILL CO LTD	
LUPI UPPER 442	A 5665	01	MAKAWAO	1	20 53	156 15	1240		MO				E MAUI IRR CO LTD	
MAHINAHINA 466	A 5715	04	LAHAINA	4	20 57	156 40	715		7A				PIONEER MILL CO LTD	
MOKUPEA 475	A 6521	04	LAHAINA	4	20 59	156 37	1290		MZ				MAUI LAND-PINEAPPLE CO	
NAKALELE FIELD 60 497	A 6645	04	LAHAINA	4	21 02	156 36	340	VAR	VAR				MAUI LAND-PINEAPPLE CO	
OLINDA 332	A 7040	01	MAKAWAO	1	20 48	156 17	4127	VAR	VAR				EAST MAUI IRRIGATION CO	
OLOWALU 296.1	7059	04	LAHAINA	4	20 49	156 37	20		7A				PIONEER MILL CO LTD	
PAAKEA 350	7194	01	HANA	1	20 49	156 07	1260	VAR	VAR			C	E MAUI IRR CO LTD	
PAIA 406	7566	01	WAILUKU	1	20 55	156 23	170		6A				HAWAIIAN COM & SUG CO	
PANILEIHULU 259.2	A 7674	02	HANA	2	20 41	156 08	3570		MO				KAUPO RANCH CO.	
PEAHI 488.6	7952	01	MAUI	1	20 54	156 17	830		WI			C	BERNARD RUPLINGER	
POHAKEA BRIDGE 307.2	A 8060	03	WAILUKU	3	20 49	156 31	167		6A				WAILUKU SUGAR CO	
POLIPOLI SPRINGS 267.2A	8070	02	MAKAWAO	2	20 41	156 20	6150	VAR	VAR				STATE DIV OF FORESTRY	
PUDOHOKAMOA 2 343	A 8336	01	HANA	1	20 50	156 13	2980		MO				E MAUI IRR CO LTD	
PUUNENE 396	8543	03	WAILUKU	3	20 53	156 27	60		7A				HAWAIIAN COM & SUG CO	
PUU PAKI 352	A 8553	01	HANA	1	20 46	156 03	2160					5	EAST MAUI IRRIGATION CO	
SPRECKELSVILLE 400.2	8688	03	WAILUKU	3	20 54	156 25	85		8A				HAWAIIAN COM & SUG CO	
TWIN GATES 261.3	A 8742	03	MAKAWAO	3	20 46	156 23	1310		VAR				KAONOULU RANCH	
UH AGRI RES CNTR 324.5	8743	02	MAUI	2	20 46	156 20	3050					C	UH MAUI AGRI RESCH CNTR	
UKULELE 333	A 8744	01	MAKAWAO	1	20 48	156 15	5230		MO				HALEAKALA RANCH CO	
UKUMEHAME 301	A 8750	04	LAHAINA	4	20 48	156 35	75		7A				PIONEER MILL CO LTD	
ULUPALAKUA RANCH 250	8760	02	MAKAWAO	2	20 39	156 24	1900		8A			C	ULUPALAKUA RCH CO LTD	
WAHIKULI 364	A 8955	04	LAHAINA	4	20 54	156 40	580		8A				PIONEER MILL CO LTD	
WAIHEU CAMP 484	A 9275	03	WAILUKU	3	20 55	156 31	320		6A				WAILUKU SUGAR CO	
WAIHEE VALLEY 482	9315	04	WAILUKU	4	20 57	156 32	300		6A				WAILUKU SUGAR CO	
WAIKAMOI 449	A 9332	01	HANA	1	20 52	156 12	1200		MO				E MAUI IRR CO LTD	
WAIKAMOI DAM 336	A 9335	01	MAKAWAO	1	20 49	156 14	4320		VAR			C	EAST MAUI IRRIGATION CO	
WAIKAPU 390	A 9376	03	WAILUKU	3	20 51	156 31	370		6A				WAILUKU SUGAR CO	
WAILUA IKI 348	A 9460	01	HANA	1	20 48	156 09	2630					S	EAST MAUI IRRIGATION CO	
WAILUKU 386	A 9484	03	WAILUKU	3	20 54	156 30	180	7A	7A				WAILUKU SUGAR COMPANY	
WAILOPAI RANCH 256	A 9765	02	HANA	2	20 38	156 12	220		OC				HALEAKALA RANCH CO	
ISLAND OF HAWAII														
AHUA UMI 75	A 0040	05	N KONA	5	19 38	155 47	5220		MO				W.H. GREENWELL RANCH	
CITY OF REFUGE 27.4	0344	04	S KONA	4	19 25	155 55	15		9A				NAT HISTORICAL PARK	

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ISLAND OF HAWAII												
HAINA 214	0840	01	HAMAKUA	1	20 06	155 28	461		8A			HONOKAA SUGAR CO
HAKALAU 142	0905	02	5 HILO	2	19 54	155 08	105		7A			MAUNA KEA SUGAR CO
HALEMAUMAU 52	A 1033	03	KAU	3	19 24	155 17	3648		MO			HAWAII NAT PARK
HALEPOHAKU 111	A 1065	02	HAMAKUA	2	19 46	155 28	9220		3P			MAUNA KEA OBSERVATORY
HA'S FARM 85.3	1270	02	HAWAII	2	19 40	155 06	580		8A			RICHARD HA JR
HAWAII VOLCNS NP HQ 54	1303	02	KAU	2	19 26	155 16	3971	8A	8A			HA VOLCANOES NAT PK HQS
HAWI 168	A 1339	01	N KOHALA	1	20 14	155 50	580		6A		C	K L 80NO
HILO COUNTRY CLUB 86.6	1487	02	HAWAII	2	19 41	155 10	1600		7A		C	REX WILLS II
HILO WSO AP 87	R 1492	02	5 HILO	2	19 43	155 04	36	M10	M10		C	NATL WEATHER SERVICE
HOLUALOA 70	A 1557	04	N KONA	4	19 38	155 55	3220		MO			STATE DIV OF FORESTRY
HOLUALOA BEACH 68	A 1562	04	N KONA	4	19 37	155 59	14		7A			CAPT COOK CATTLE CO
HONANAU 27	1665	04	5 KONA	4	19 27	155 53	1089		7A			SHIGETO L TANAKA
HONOHINA 137	1701	02	N HILO	2	19 56	155 09	300		7A			MAUNA KEA SUGAR CO
HONOMU MAUKA 138	1960	02	5 HILO	2	19 51	155 09	1100		7A		C	MAUNA KEA SUGAR CO
HONUAULA 71	A 2047	04	N KONA	4	19 40	155 53	6250		MO			STATE DIV OF FORESTRY
HUALALAI 72	A 2151	04	N KONA	4	19 42	155 52	8190		MO			STATE DIV OF FORESTRY
HUEHUE 92.1	A 2156	04	N KONA	4	19 45	155 59	1960		6A			HUEHUE RANCH
KAAALA IKI 12	A 2249	03	KAU	3	19 08	155 34	1340		WI			KAU SUGAR COMPANY, INC
KAAWALO 29	A 2327	04	SOUTH KONA	4	19 30	155 55	1340		8A			CAPT COOK INVESTMENT CO
KAHIAWAI MAUKA 3.8	2512	03	KAU	3	19 08	155 46	4120				C	RUSSELL P. SMITH
KAHUA RCH HQTRS 176.3	2600	01	HAWAII	1	20 08	155 48	3240				C	KAHUA RANCH COMPANY
KAINALIU 73.2	2751	04	N KONA	4	19 32	155 56	1500	7A	7A			KONA EXPERIMENT STA
KALAOA 69.22	2887	04	HAWAII	4	19 44	155 59	2000		8A			FLOYD W MC COY
KALAPANA 1 67.8	2894	02	5 HILO	2	19 20	155 02	10		VAR			HAWAII VOLCANOES NAT PK
KAMAOKA 2 5	A 3048	03	KAU	3	19 02	155 40	1375		WI			PARKER RCH-KAPAPALA DIV
KAMUELA 192.2	3077	01	5 KOHALA	1	20 01	155 40	2670	6A	6A			PARKER RANCH
KAPAPALA RANCH 36	A 3300	03	KAU	3	19 17	155 27	2140		6A			PARKER RCH-KAPAPALA DIV
KAPOHO BEACH 93.11	3368	02	HAWAII	1	19 30	154 49	10	8A	8A			H E MC NICHOLS
KAPOHO LANDING 93.5	A 3369	02	PUNA	2	19 30	154 52	290		VAR			DEPT OF PUBLIC WORKS
KAWAINUI LOWER 193	A 3770	01	HAMAKUA	1	20 05	155 39	1080		WI			HONOKAA SUGAR CO
KEAAU 92	3872	02	PUNA	2	19 38	155 02	285	8A	8A			PUNA SUGAR CO
KEAIIWA CAMP 22.1	3925	03	KAU	3	19 14	155 29	1700				C	KAU SUGAR COMPANY, INC
KEALAKEUA 26.2	3977	04	5 KONA	4	19 30	155 55	1450				C	HERBERT KANE
KEANAKOLU CAMP 124.2	4098	02	HAMAKUA	2	19 55	155 21	5280				C	STATE DIV OF FORESTRY
KIOLAKAA A & F 6	A 4625	03	KAU	3	19 04	155 38	1925		MO			STATE DIV OF FORESTRY
KIPA 89.2	A 4632	02	5 HILO	2	19 44	155 09	1490		WI			MAUNA KEA SUGAR CO.
KOHALA MISSION 175.1	4680	01	N KOHALA	1	20 14	155 48	537	7A	7A			K. LYMAN 80NO
KOIAWE LOWER 196	A 4685	01	HAMAKUA	1	20 05	155 38	720		WI			HONOKAA SUGAR CO
KONA (KAILUA) 68.3	A 4764	04	N KONA	4	19 39	156 00	30	8A	8A			CHEVRON USA
KONA VILLAGE 93.8	4765	04	N KONA	4	19 50	155 59	20		8A			KONA VILLAGE RESORT HTL
KUKAIAU 222	4815	01	HAMAKUA	1	20 02	155 21	840		6A			LAUPAHOEHOE SUGAR CO
KUKUIHALE HIC 199	4928	01	HAMAKUA	1	20 07	155 35	980		6A			HONOKAA SUGAR CO
KUKUIHALE MILL 206	A 4938	01	HAMAKUA	1	20 08	155 34	300		6A			HONOKAA SUGAR CO
KULANI CAMP 79	5011	02	5 HILO	2	19 33	155 18	5170	8A	8A			ST DEPT OF SOCIAL SER
KULANI MAUKA 76	A 5018	05	N HILO	5	19 35	155 27	8300		WI			MAUNA LOA OBS.
KULANI SCHOOL SITE 78	A 5021	02	5 HILO	2	19 35	155 20	5735		WI			ST DEPT OF SOCIAL SER
LALAMILO FLD OFF 191.1	5260	01	5 KOHALA	1	20 01	155 41	2615				C	STATE DEPT OF L&N RES
LANIHAU 68.2	5330	04	N KONA	4	19 40	155 58	1530		7A			KONA EXPERIMENT STATION
LAVA TREE PARK 66.1	5460	02	PUNA	2	19 29	154 54	650				C	STATE DIV OF PARKS
MAKAHALAU 103	5761	02	HAWAII	1	19 59	155 33	3820		6A			PARKER RANCH
MANUKA 2	A 6134	03	KAU	3	19 07	155 50	1760		WI			STATE DIVISION OF PARKS
MAUNA KEA 085 111.2	6183	02	HAWAII	2	19 49	155 28	13770		7P			MAUNA KEA OBSERVATORY
MAUNA LOA SLOPE 085	6198	05	HAMAKUA	5	19 32	155 35	11150	M10	M10			MAUNA LOA OBSERVATORY
MIDDLE HOLUALOA 68.1	A 6268	04	N KONA	4	19 37	155 58	500		7A			CAPT COOK CATTLE CO
MIDDLE PEN 147.1	A 6270	01	N KOHALA	1	20 06	155 50	1380		VAR			KAHUA RANCH
MORULA 18	A 6407	03	KAU	3	19 11	155 30	600		WI			PARKER RCH-KAPAPALA DIV
MOUNTAIN VIEW 91	6552	02	PUNA	2	19 33	155 07	1530	6A	6A			PUNA SUGAR CO
NAALEHU 14	A 6588	03	KAU	3	19 04	155 35	800	8A	8A			KAU SUGAR COMPANY
NAPOOPOO 28	A 6697	04	5 KONA	4	19 28	155 55	395		7A			KONA EXPERIMENT STA
OOKALA 223	7131	02	N HILO	2	20 01	155 17	430	7A	7A			LAUPAHOEHOE SUGAR CO
OPIHIHALE 2 24.1	7166	04	5 KONA	4	19 16	155 53	1270	7A	7A			MRS LORMA TRUMAN
ORCHIO LAND EST 91.5	A 7185	02	PUNA	2	19 34	155 00	445		VAR			BOARD OF WATER SUPPLY
PAUHAU 217	7204	01	HAMAKUA	1	20 05	155 26	415		8A			HONOKAA SUGAR COMPANY
PAUULO 221	7312	01	HAMAKUA	1	20 03	155 22	800		7A			LAUPAHOEHOE SUGAR CO
PAHALA 21	A 7421	03	KAU	3	19 12	155 29	870	8A	6A			KAU SUGAR COMPANY, INC
PAHOA 65	7457	02	PUNA	2	19 30	154 57	670		6A			PUN SUGAR COMPANY
PAKAO 37	A 7643	03	KAU	3	19 22	155 28	5000		MO			PARKER RCH-KAPAPALA DIV

SEE REFERENCE NOTES FOLLOWING STATION INDEX

# STATION INDEX

HAWAII AND PACIFIC  
FEBRUARY 1978

STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES				OBSERVER
								TEMP.	PRECIP.	EVAP.	SPECIAL (SEE NOTES)	
ISLAND OF HAWAII												
PAPAIKOU 144.1	7711	02	S HILO	2	19 47	155 06	260		7A			MAUNA KEA SUGAR CO
PAPAIKOU MAUKA 140.1	7721	02	S HILO	2	19 47	155 08	1270		7A			MAUNA KEA SUGAR CO
PIIHONUA 89	A 8051	02	S HILO	2	19 44	155 10	1730		MO			STATE DIV OF FORESTRY
POHAKULOA 107	8063	02	HAMAKUA	2	19 45	155 32	6511		WI		C	STATE DIVISION OF PARKS
PUUKOHOLA HEIAU 98.1	8422	05	HAWAII	5	20 02	155 50	140	8A	8A			SUPT PUU HEIAU-NHS
PUU LEHUA 73	A 8460	04	N KONA	4	19 34	155 49	4880		MO			W.H. GREENWELL RANCH
PUU WAAWAA 94.1	A 8555	05	N KONA	5	19 47	155 51	2520		7A		C	PUU WAAWAA RANCH CO
SAOOLE ROAD 1 84	A 8590	02	S HILO	2	19 42	155 12	2340		WM			BOARD OF WTR SUPPLY
SOUTH KONA 2.31	8650	03	HAWAII	3	19 06	155 45	2650	8A	8A			MRS CAROLYN CARLSON
SOUTH POINT CORRAL 3	A 8675	03	KAU	3	18 57	155 41	500		WI			PARKER RCH-KAPAPALA DIV
UPOLU POINT USCG 159.2	8830	01	N KOHALA	1	20 15	155 53	61	8A	2P			U S COAST GUARD
WAIKAEA SCO 88.2	9025	02	S HILO	2	19 40	155 08	1050		7A			SHINICHI KANESHIRO
WAIKALO A-801S CAS 95.8	9142	04	HAWAII	5	19 56	155 48	900		8A			BOISE CASCADES WA CONST
NEW STATIONS												
ISLAND OF MAUI												
WAIHEE VALLEY 482	9315	04	WAILUKU	4	20 57	156 32	300		6A			WAILUKU SUGAR CO
ISLAND OF HAWAII												
POHAKULO A 107	8063	02	HAMAKUA	2	19 45	155 32	6511		WI		C	STATE DIVISION OF PARKS

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## STATION INDEX

HAWAII AND PACIFIC  
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STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES				OBSERVER
								TEMP.	PRECIP.	EVAP.	SPECIAL (SEE NOTES)	
PACIFIC												
EAST OF 180TH MERIDIAN												
ATU'U	4060	D3	TUTUILA		14 16S	170 41W	265		4P			MARIST BROTHERS
CANTON ISLAND	4101	D2	PHOENIX IS		2 46N	171 43W	8	9A	9A			ITT/FEDERAL ELEC CORP
FAGA ALU RESERVDIR	4135	03	AMER SAMOA		14 18S	170 42W	820		8A			PUBLIC WORKS
FALEASAO VILLAGE	4248	03	TA'U'MAN		14 14S	169 31W	16		8A			SOLDMULI MALU'IA
JOHNSTON IS WSO AP	R 4320	01	LINE ISLANDS		16 44N	169 31W	10	M10	M10	SP	J	NATL WEATHER SERVICE
LEONE	4397	03	TUTUILA		14 21S	170 47W	20	6P	6P			ST THERESA SCHDOL
FRENCH FRIGATE SHOALS	4401	D7			23 52N	166 17W	6	8P	8A			U S COAST GUARD
MIDWAY SAND ISLAND	4490	07			28 13N	177 21W	10	M10	M10			U S NAVY
PAGO PAGO WSO AP	R 4690	03	AMER SAMOA		14 20S	170 43W	12	M10	M10		J	NATL WEATHER SERVICE
WESTERN PACIFIC ISL. NORTH OF 12 N												
ANDERSEN AFB GUAM	\$3 4025	03	MARIANNA IS		13 35N	144 SSE	624	M10	M10			AIR WEATHER SERVICE
CLARK AFB LUZON	\$3 4100	06	PHILIPPINE I		15 11N	120 33E	475	M10	M10			U S AIR FORCE
GUAM NAS	4226	03	MARIANNA IS		13 29N	144 48E	254	M10	M10			U S NAVY
GUAM WSO	R 4229	03	MARIANNA IS		13 33N	144 SDE	361	10A	10A	6P	J	NATL WEATHER SERVICE
MANGILAO	4468	D3	GUAM		13 27N	144 49E	60		7A			GUAM AGRICULTURAL STA
ROTA	4800	03	MARIANNA IS		14 08N	145 09E	47		8A			DIST ADMINISTRATOR
SAIPAN LORAN	4860	03	MARIANNA IS		15 08N	145 42E	9	10A	10A			U S C G LORAN STATION
WAKE ISLAND WSO AP	R 4901	01	WAKE ISLAND		19 17N	166 39E	12	M10	M10		J	NATL WEATHER SERVICE
CAROLINE AND MARSHALL ISLANDS												
ANGUAR	4030	02	CAROLINE IS		6 55N	134 09E	15		8A			USCG LORAN STATION
ENIWETAK	4165	01	MARSHALL IS.		11 21N	162 21E	10	M10	M10			U S COAST GUARD
FALALOP I ULITHI ATOLL	4185	D2	CARDLINE IS	2	10 02N	139 48E	6	M10	M10			RAPHAEL B LINGESOH
KAPINGAMARANGI ATOLL	4325	01	PONAPE		1 05N	154 48E	10	M10	M10			ERSIN HADUET
KOROR WSO	R 4351	02	CAROLINE IS		7 20N	134 29E	94	M10	M10		J	NATL WEATHER SERVICE
KWAJALEIN MISSILE RGN	R 4375	D1	MARSHALL IS		8 44N	167 44E	7	12M	12M		J	KMR WEATHER SERVICE
LELE I KOSRAE	4395	D2	KOSRAE		5 20N	163 02E	7	M10	M10			JULIAN E ROBERT
MAJURO WSO AP	R 4460	02	MARSHALL IS		7 05N	171 23E	10	M10	M10		J	NATL WEATHER SERVICE
METALANIM	4482	D2	PONAPE		6 51N	158 19E	30	6P	6P			REV E. A. SOUCIE
MOKIL ATOLL	4490	D2	PONAPE DIST.		6 41N	159 47E	27		SP			ESHAM BEN
NGASANG.8ABELTHUAP	4580	D1	PALAU ISLAND		7 38N	134 39E	10		8A			BETHANIA SEMINARY
PONAPE WSO	R 4751	D2	CARDLINE IS		6 58N	158 13E	123	M10	M10		J	NATL WEATHER SERVICE
SATAWAN ATOLL	4814	D2	CAROLINE IS		5 20N	153 44E	9	M10	M10			ANTER EKO
TRUK. MOEN I. WSO AP	R 4851	D2	CAROLINE IS		7 28N	151 51E	5	M10	M10		J	NATL WEATHER SERVICE
WOLEAI ATOLL	4911	D1	CARDLINE IS		7 23N	143 55E	7	M10	M10			HASUGULIMAR/HALEYEMAI
YAP WSO AP	R 4951	D2	CAROLINE IS		9 29N	138 05E	44	M10	M10		J	NATL WEATHER SERVICE
NEW STATIONS												
EAST OF 180TH MERIDIAN												
ATU'U	4060	D3	TUTUILA		14 16S	170 41W	265		4P			MARIST BROTHERS

SEE REFERENCE NOTES FOLLOWING STATION INDEX

Additional information regarding the climates of Hawaii and the Pacific Ocean Area may be obtained by writing to the National Climatic Center, Federal Building, Asheville, N.C. 28801, or to any National Weather Service Office near you. Additional precipitation data for Hawaii are contained in "HOURLY PRECIPITATION DATA HAWAII."

**DIMENSIONAL UNITS:** Unless otherwise indicated, dimensional units used in this bulletin are: Temperature in °F., precipitation and evaporation in inches, and wind movement in miles. In "Supplemental Data" table directions entered in figures are tens of degrees. Resultant wind is the vector sum of wind directions and speeds divided by the number of observations.

**OBSERVATION TIME:** Data in the "Monthly Extremes," "Daily Precipitation" table, "Daily Temperature" table, and "Evaporation and Wind" table are for the 24 hours ending at time of observation unless indicated otherwise by reference letters in the Station Index. The Station Index shows observation time in local standard time.

**EVAPORATION** is measured in the standard Weather Service-type pan of 4-foot diameter unless otherwise noted below in the Evaporation and Wind table. Max and Min values in the Evaporation and Wind table are extremes of temperature of water in pan as recorded during 24 hours ending at time of observation. Wind is the total wind movement in miles over the evaporation pan as determined by a continuous anemometer recorder located 6-8 inches above the pan.

**NORMALS** for all stations are climatological standard normals based on the period 1941-1970.

**STATION NAMES:** Hawaii state key numbers are included following station names in the several tables.

**LATE REPORTS AND CORRECTIONS** will be carried only in the June and December issues of this bulletin.

**INTERPOLATED VALUES** for monthly precipitation totals may be found in the annual issue of this publication.

**IN THE DATA TABLES THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING:**

- No record in the "Supplemental Data" table, "Daily Precipitation" table, "Evaporation and Wind" table, and the Station Index.
- No record in the "Monthly Summarized Data" table and the "Daily Temperature" table is indicated by no entry.
- + And also on an earlier date or dates.
- ++ Highest observed one minute windspeed. This station is not equipped with an instrument to measure fastest mile data.
- \* Amount included in following measurement, time distribution unknown.
- ‡ Extreme occurred at station with incomplete data which may have been exceeded.
- A The letter "A" shown following station name in "Monthly Summarized Data" table, "Daily Precipitation" table, and "Station Index," indicates amount carried in the "Total" column is for the period from last measurement of a preceding month through the last measurement of the current month. See "Daily Precipitation" table of this and previous bulletins for dates of measurement. Where gages are read only once monthly, measurements made on the first of a month are credited to the last day of the preceding month.
- B Adjusted to a full month.
- M One or more days of record missing; if average value is entered, less than 10 days record is missing. See "Daily Temperature" table for detailed daily record.
- R Amounts from recording gage.
- T Trace, an amount too small to measure.
- V Includes total for previous month.

**IN THE STATION INDEX THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING:**

- AR Observation made after rain.
- C In Special Column of Station Index indicates Recording Rain Gage Station. Hourly Precipitation values are processed for special purposes, and are published later in the "Hourly Precipitation Data" bulletin. If daily amounts are published in "Monthly Summarized Data" bulletin they are from a separate non-recording gage, except where indicated by reference 'R'. Such amounts may differ from amounts published from the recording gage in the "Hourly Precipitation Data" bulletin.
- J "Supplemental Data" table.
- MO Gage read once monthly; usually on the last day.
- OC Gage readings at periods varying from a few weeks to several months.
- S Storage precipitation station. Precipitation measurements, made at irregular intervals, are published in the annual issue of this publication, beginning with the 1977 data. Prior data are found in the "Storage-Gage Precipitation Data" Bulletin, which was discontinued with the 1976 issue.
- SS Observation time is near sunset.
- VAR Observation time is variable.
- WI Gage read weekly or irregularly only.
- WM Gage read weekly and last day of month.
- # Thermometers are generally exposed in a shelter located a few feet above sod-covered ground; however, this reference indicates that the thermometers are exposed in a shelter located on the roof of a building.
- ‡ Maximum and minimum temperatures are the highest and lowest hourly readings for each day.
- # DRAINAGE CODE: KAUAI: 1-NORTHERN 2-SOUTHEASTERN 3-SOUTHWESTERN OAHU: 1-WINDWARD KOOLAU 2-HONOLULU 3-SOUTH CENTRAL 4-WESTERN 5-NORTH CENTRAL MOLOKAI: 1-(NO INTRA-ISLAND DIVISIONS) LANAI: 1-(NO INTRA-ISLAND DIVISIONS) MAUI: 1-NORTHEASTERN 2-SOUTHERN 3-CENTRAL 4-WESTERN HAWAII: 1-NORTHERN 2-EASTERN 3-SOUTHERN 4-WESTERN 5-CENTRAL

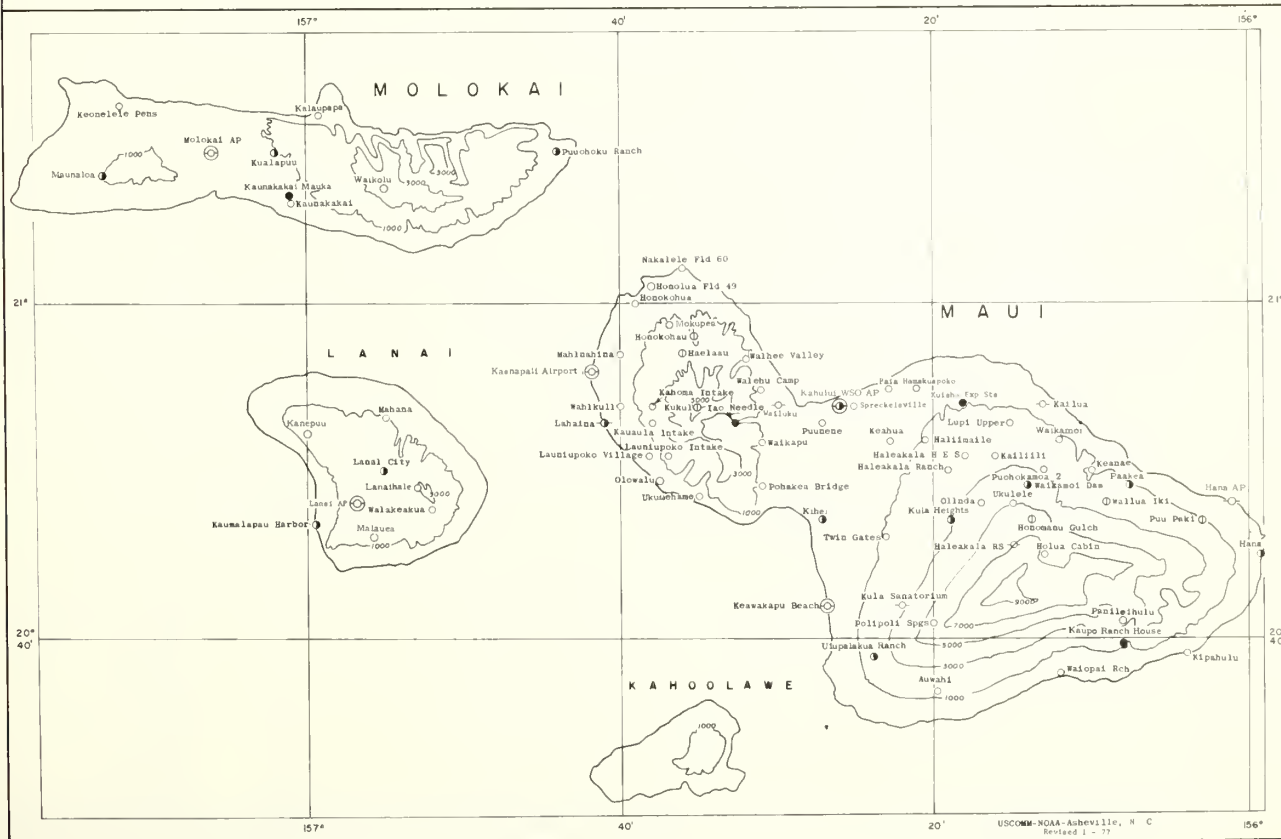
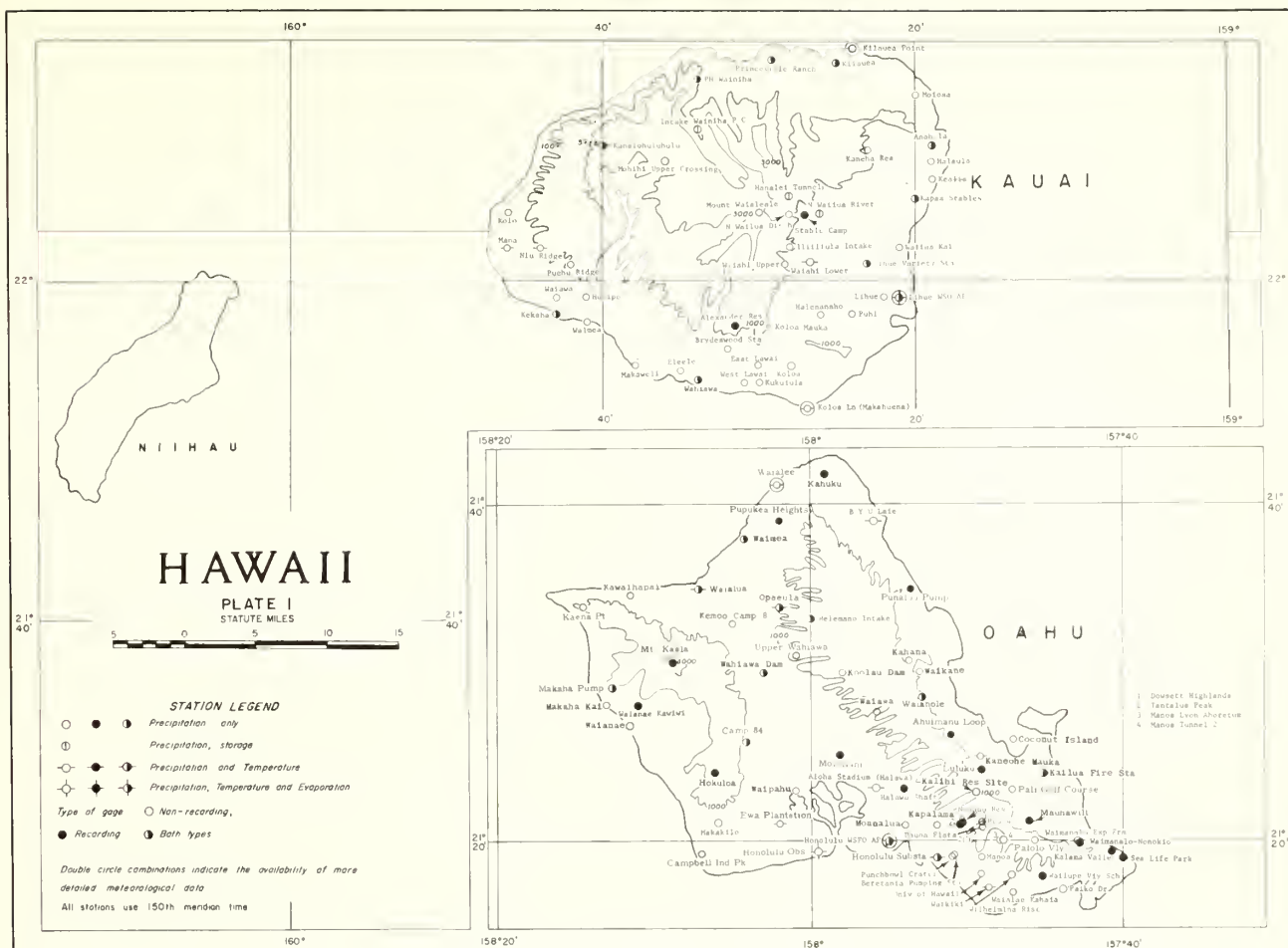
Stations appearing in the tables with no data were either missing or received too late to be included in this issue.

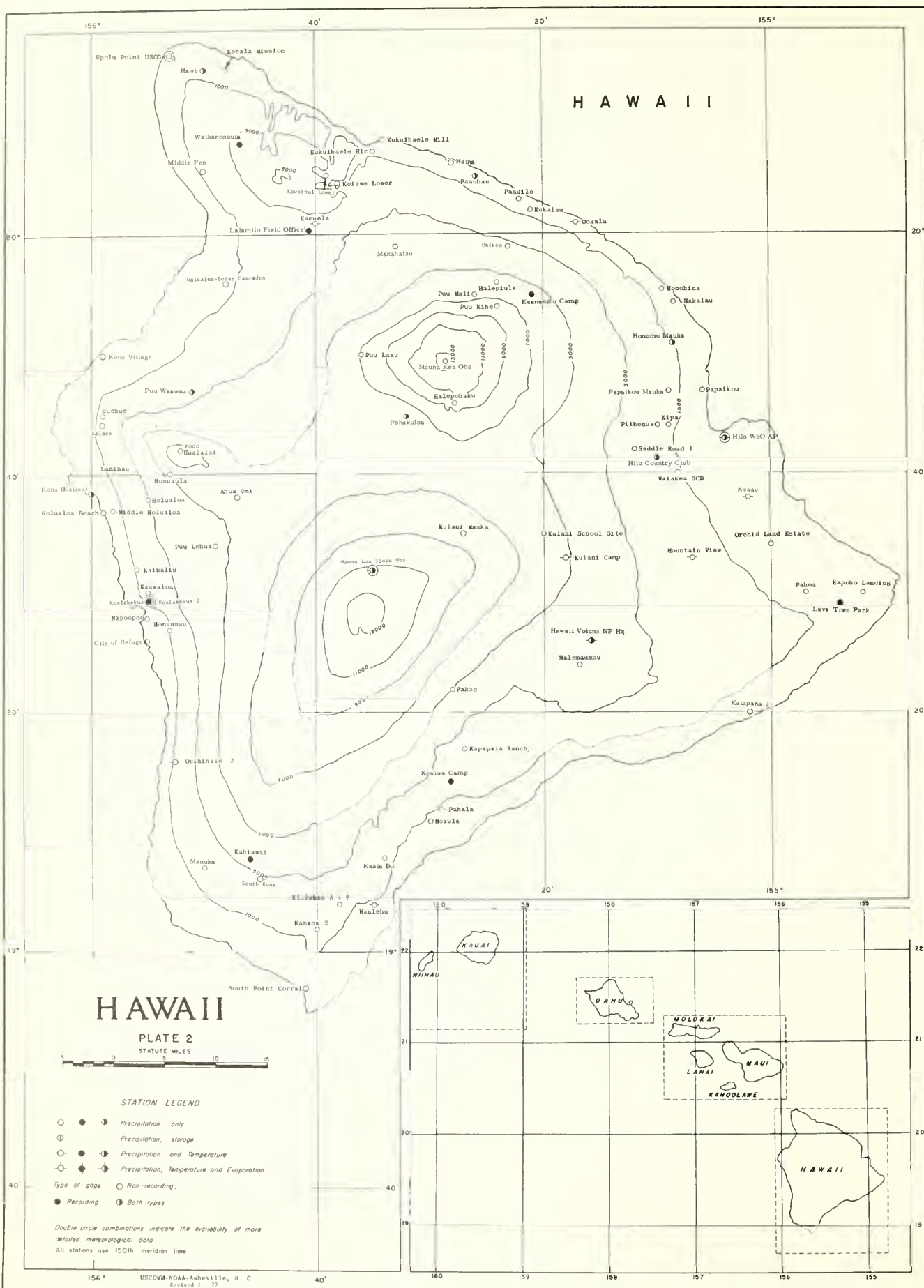
The Pacific includes stations in the Trust Territory of the Pacific Islands, Territory of Guam, American Samoa, and other scattered islands and atolls.

General weather conditions in the U.S. for each month are described in the CLIMATOLOGICAL DATA NATIONAL SUMMARY and STORM DATA.

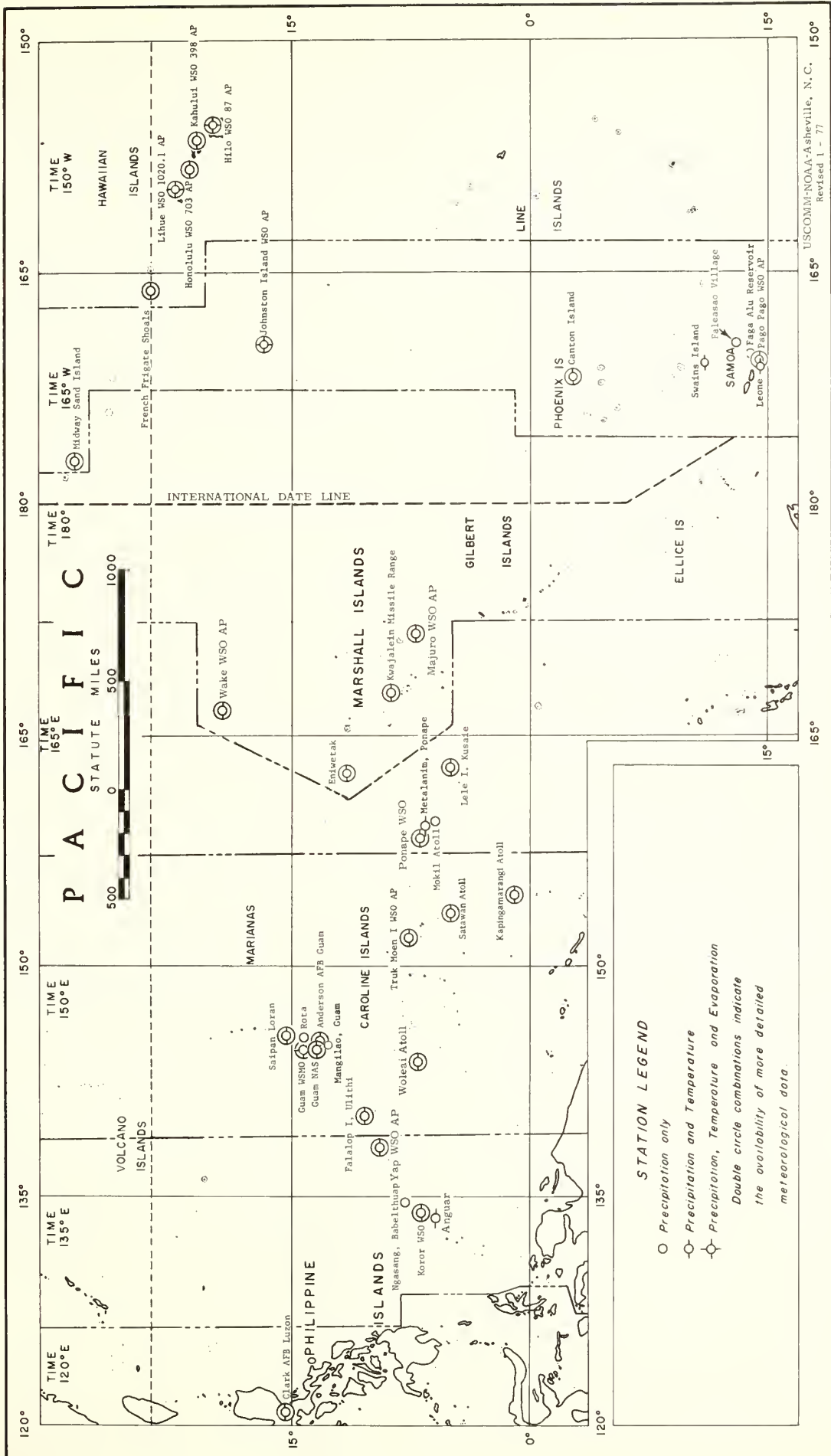
Information concerning the history of changes in locations, elevations, exposure, etc., of substations through 1957 may be found in the publication "Substation History" for this State, price 40 cents. Similar information for regular National Weather Service Offices may be found in the latest annual issue of Local Climatological Data, price 20 cents. These publications may be obtained from the National Climatic Center at the address shown above.

Subscription Price: \$5.10 a year for each section including annual summary; \$5.55 additional for foreign mailing; 40¢ single copy; 30¢ annual summary. Make checks payable to Department of Commerce, NOAA; send payments and orders to: National Climatic Center, Federal Building, Asheville, N. C. 28801. Attn: Publications.

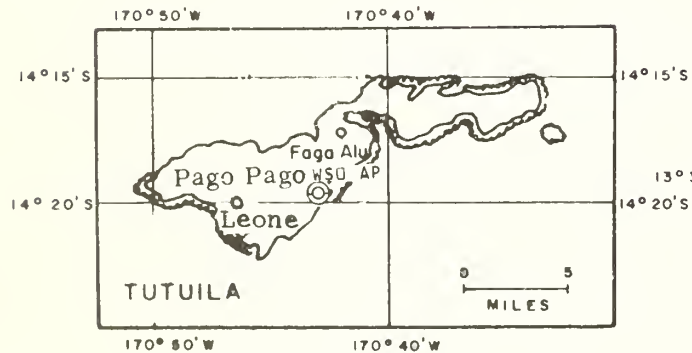
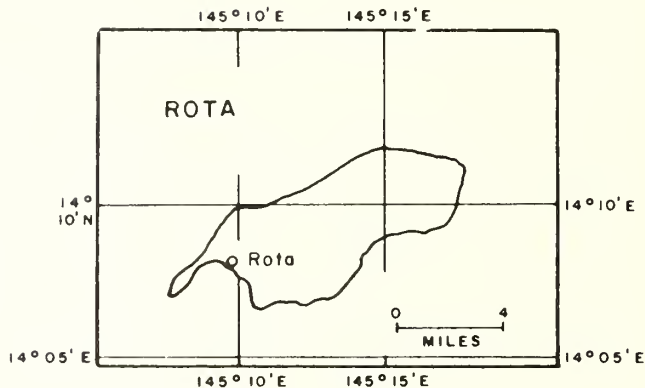
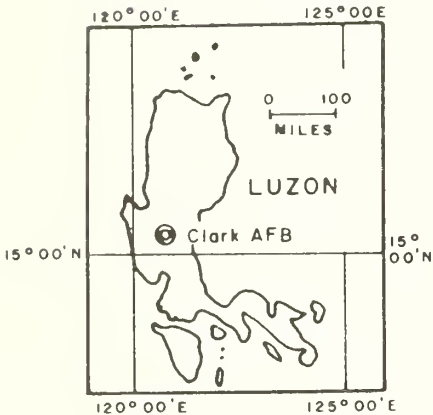
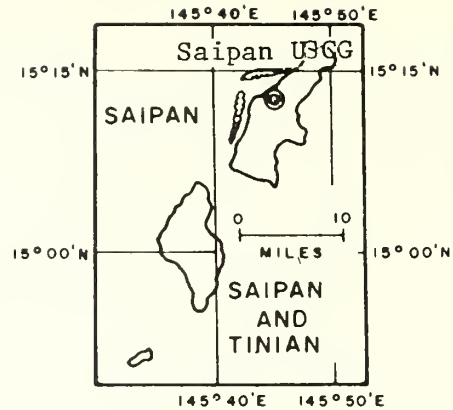
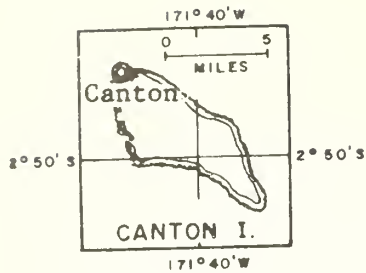




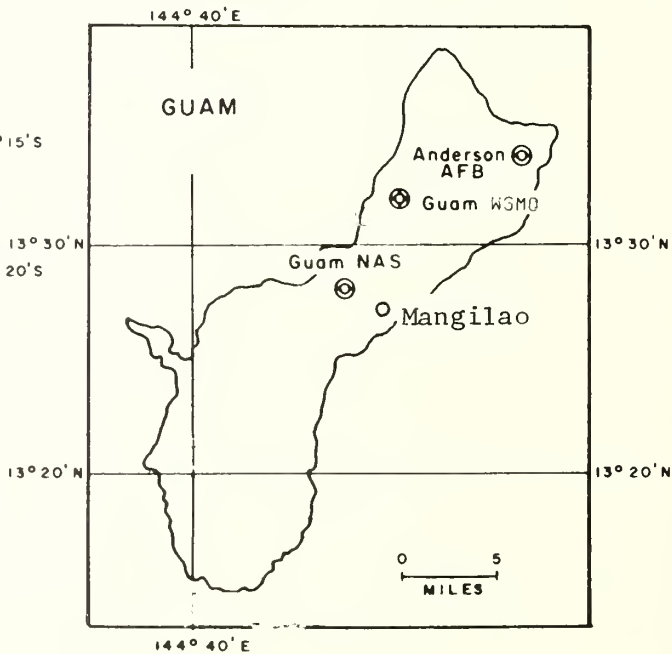


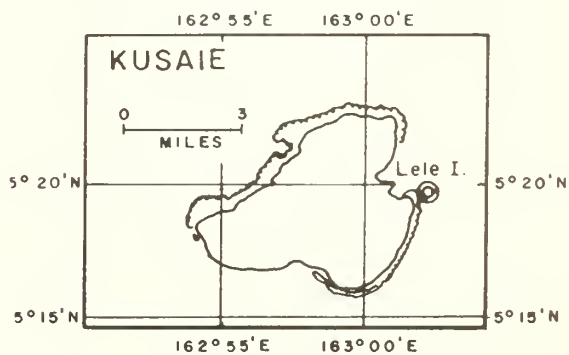
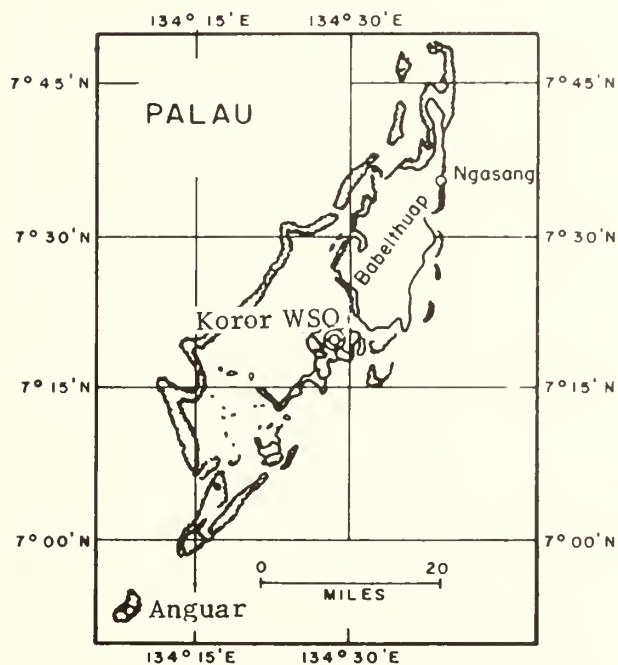
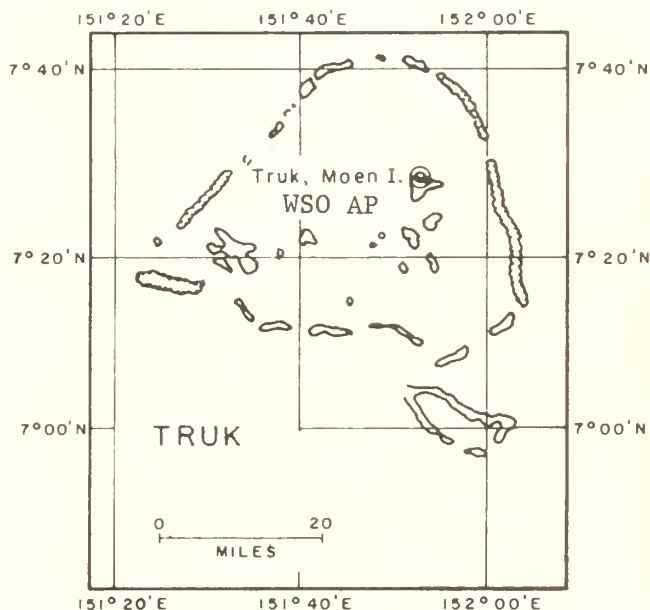
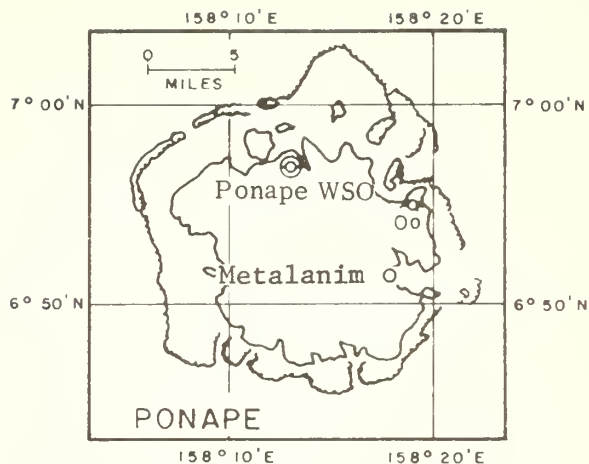
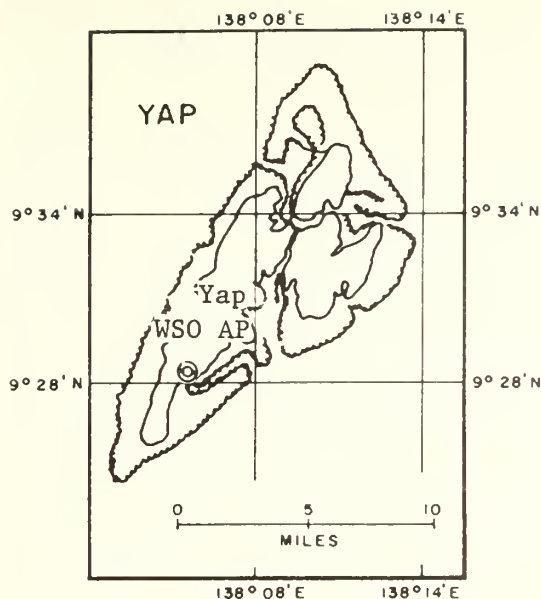




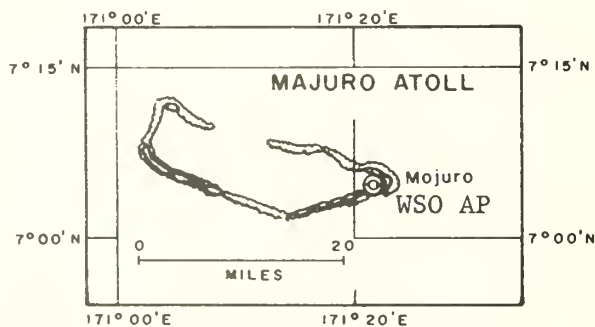
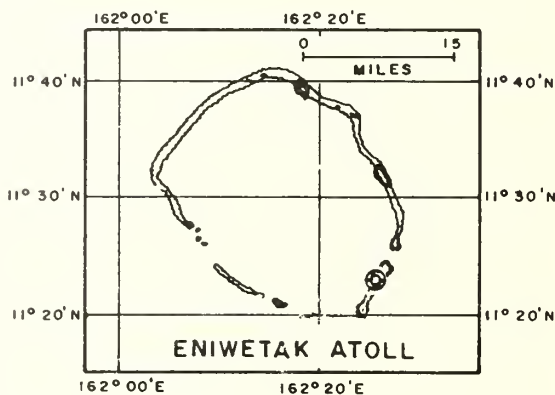
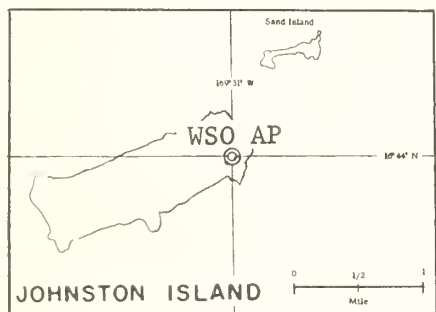
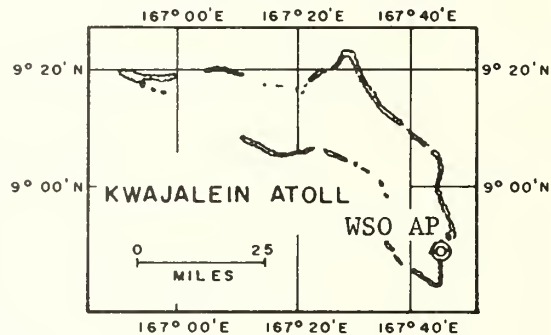
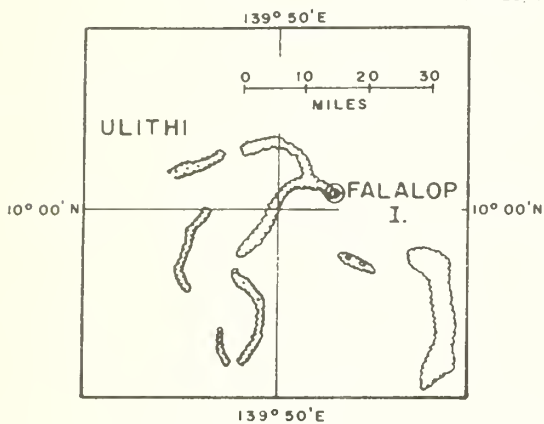
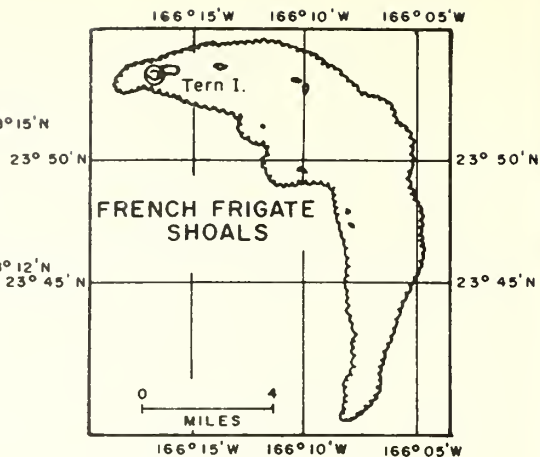
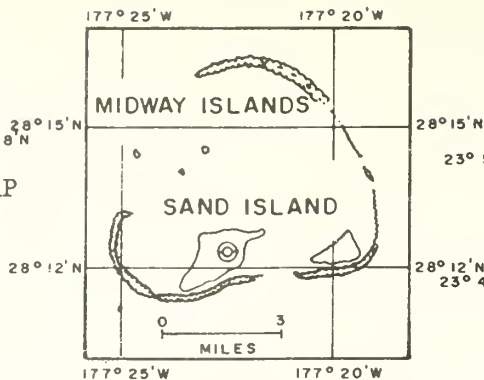
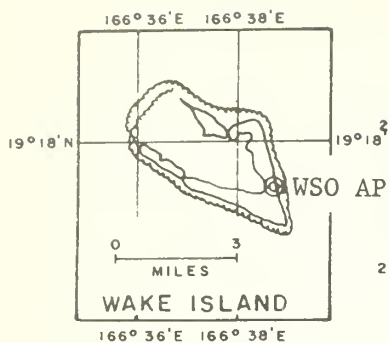


Reef





— Reef





U.S. DEPARTMENT OF COMMERCE  
NATIONAL CLIMATIC CENTER  
FEDERAL BUILDING  
ASHEVILLE, N.C. 28801

POSTAGE AND FEES PAID  
U.S. DEPARTMENT OF COMMERCE

COM 210



**THIRD CLASS**



# Climatological Data



## HAWAII AND PACIFIC

### TEMPERATURE AND PRECIPITATION EXTREMES

HAWAIIAN STATIONS ONLY

HIGHEST TEMPERATURE: PUUKOHOLA HEIAU 98.1 HAWAII 93 DATE 15  
 LOWEST TEMPERATURE: MAUNA LOA SLOPE 085 HAWAII 26 DATE 22+  
 GREATEST TOTAL PRECIPITATION: HONOLULU MAUKA 138 HAWAII 21.05  
 LEAST TOTAL PRECIPITATION: POHAKULOA 107 HAWAII .00  
 GREATEST 1 DAY PRECIPITATION: PAPA'IKOU MAUKA 140.1 HAWAII 4.46 DATE 14

JUN 23 1978

### SUPPLEMENTAL DATA

	WIND (SPEED - M.P.H.)						RELATIVE HUMIDITY AVERAGES- PERCENT				NUMBER OF DAYS WITH PRECIPITATION								PERCENT OF POSSIBLE SUNSHINE	AVERAGE (TENTHS) SKY COVER	SUNRISE TO SUNSET
	RESULTANT DIRECTION	RESULTANT SPEED	AVERAGE	FASTEST MILE	DIRECTION OF FASTEST MILE	DATE OF FASTEST MILE	STANDARD OF TIME				TRACE	.01-.09	.10-.49	.50-.99	1.00-1.99	2.00 AND OVER	TOTAL				
							GREENWICH CIVIL														
							12	18	00	06											
GUAM WSMO	-	-	-	25	E 18	-	70	66	87	2	6	4	0	0	0	12	61	5.8			
HILO WSO 87 AP	34	0.3	6.7	20	E 04	86	83	66	81	1	4	13	3	2	2	25	48	6.5			
HONOLULU WSO 703 AP	6	9.5	12.7	27	NE 16	71	68	53	66	9	8	4	0	0	0	21	69	5.4			
JOHNSTON WSO AP	8	16.4	18.7	38	E 17	76	75	69	74	3	12	4	1	0	0	20	88	3.9			
KAHULUI WSO 398 AP	6	8.3	11.4	32	E 31	74	73	57	65	4	3	5	0	1	0	13	68	4.5			
KOROR WSO	7	9.1	10.0	20	NE 26	83	-	77	74	3	10	5	2	3	0	23	81	8.5			
KWAJALEIN MISSILE RGN	7	14.6	14.9	23+*	6 14+	78	78	68	72	10	9	2	2	0	1	24	-	8.0			
LIHUE WSO 1020.1 AP	6	9.3	12.8	26	NE 15	77	73	55	73	3	16	2	1	0	0	22	68	6.4			
MAJURO WSO AP	7	13.2	13.6	27	E 13+	78	79	72	75	5	7	4	1	1	0	18	83	8.6			
PAGO PAGO WSO AP	4	6.3	9.8	32	E 07	86	88	77	84	1	7	6	5	4	5	28	34	8.0			
PONAPE WSO	-	-	-	18	E 08	80	-	74	73	4	7	10	0	1	1	23	61	8.7			
TRUK MOEN I. WSO AP	6	11.7	12.4	34	NE 25	78	-	73	73	9	4	6	0	0	1	20	58	9.7			
WAKE ISLAND WSO AP	6	9.6	14.4	28	NE 12+	86	87	72	76	9	7	2	0	1	0	19	73	4.2			
YAP WSO AP	8	10.4	10.8	22	NE 27+	84	-	73	70	6	11	6	0	0	0	23	70	7.7			

I CERTIFY THAT THIS IS AN OFFICIAL PUBLICATION OF THE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION AND IS COMPILED FROM RECORDS ON FILE AT THE NATIONAL CLIMATIC CENTER, ASHEVILLE, NORTH CAROLINA 28801.

*Daniel B. Mitchell*

DIRECTOR  
NATIONAL CLIMATIC CENTER

**noaa**

NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION / ENVIRONMENTAL DATA SERVICE / NATIONAL CLIMATIC CENTER ASHEVILLE, N.C.

## MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

HAWAII AND PACIFIC  
MARCH  
1978

STATION		TEMPERATURE										PRECIPITATION																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
		AVERAGE MAXIMUM	AVERAGE MINIMUM	AVERAGE	DEPARTURE FROM NORMAL	HIGHEST	DATE	LOWEST	DATE	DEGREE DAYS	NO. OF DAYS					TOTAL	DEPARTURE FROM NORMAL	GREATEST DAY	DATE	SNOW, SLEET			NO. OF DAYS																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
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SEE REFERENCE NOTES FOLLOWING STATION INDEX

# MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

HAWAII AND PACIFIC  
MARCH 1978

STATION		TEMPERATURE										PRECIPITATION																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
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SEE REFERENCE NOTES FOLLOWING STATION INDEX

# MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

HAWAII AND PACIFIC  
MARCH 1978

STATION	TEMPERATURE										PRECIPITATION												
	AVERAGE MAXIMUM	AVERAGE MINIMUM	AVERAGE	DEPARTURE FROM NORMAL	HIGHEST	DATE	LOWEST	DATE	DEGREE DAYS	NO. OF DAYS				TOTAL	DEPARTURE FROM NORMAL	GREATEST DAY	DATE	SNOW, SLEET		NO. OF DAYS			
										MAX.		MIN.						TOTAL	MAX. DEPTH ON GROUND	DATE	-1.0 OR MORE	-5.0 OR MORE	1.00 OR MORE
										32° OR ABOVE	86.0°	32° OR BELOW	61.0°										
PACIFIC																							
• • • EAST OF 180TH MERIDIAN																							
ATU'U CANTON ISLAND	90.0M	80.6M	85.3M		91	31+	78	1			0	0	0	35.97 .63		7.62 .41	18 3	.0 .0	0 0	23	18	11	0
FAGA ALU RESERVOIR														28.15		2.49	18	.0	0	25	22	11	0
FALEASAO VILLAGE											0	0	0	1.53	- 1.32	.61	16	.0	0	5	1		
JOHNSTON IS WSO AP	R	80.8	74.3	77.6	1.0	83	5	69	1		0	0	0					.0	0				
LEONE		88.5	81.1	84.8		95	6	75	25+		13	0	0	0	24.83		3.10	16	.0	0	20	14	9
FRENCH FRIGATE SHOALS																							
MIDWAY SAND ISLAND		70.5	60.5	65.5	- .9	77	25	53	11		0	0	0	0	3.59	.59	.95	19	.0	0	7	3	0
PAGO PAGO WSO AP	R	85.5	75.1	80.3	- .1	89	25+	72	23+		0	0	0	0	25.64	13.57	4.27	18	.0	0	20	14	9
• • • WESTERN PACIFIC ISL. NORTH OF 12 N																							
ANDERSEN AFB GUAM		81.8	75.3	78.6	.1	85	30	74	17+		0	0	0	0	.89	- 1.81	.25	24	.0	0	4	0	0
CLARK AFB LUZON		91.6	73.8	82.7	1.6	95	9+	72	21+		26	0	0	0	.72	- .13	.40	11	.0	0	2	0	0
GUAM NAS																							
GUAM WSMO	R	85.6	70.6	78.1	.4	87	31+	62	4		0	0	0	0	.85 .38	- 2.09	.24 .10	17 14	.0 .0	0 0	4 1	0 0	0 0
MANGILAO																							
ROTA																							
SAIPAN LORAN																							
WAKE ISLAND WSO AP	R	82.5	71.5	77.0	- .7	85	25+	68	29		0	0	0	0	1.90	.30	1.49	29	.0	0	3	1	1
• • • CAROLINE AND MARSHALL ISLANDS																							
ANGUAR																							
ENEWETAK	M	M	M		88	31	70	29			0	0	0	0					.0	0			0
FALALOP I ULITHI ATOLL																							
KAPINGAMARANGI ATOLL																							
KOROR WSO	R	87.9	76.1	82.0	.9	91	10	71	21		4	0	0	0	6.02	- 1.77	1.30	14	.0	0	10	5	3
KARAJALEIN MISSILE RON	R	86.9	78.0	82.5	.8	89	21+	74	27		0	0	0	0	4.59	- 1.62	2.55	27	.0	0	5	3	1
LELE I KOSRAE																							
MAJURO WSO AP	R	86.4	76.5	81.5	.3	88	22+	74	18+		0	0	0	0	3.39	- 5.86	1.12	27	.0	0	6	2	1
METALANIM		85.7	76.5	81.1		88	22+	71	11		0	0	0	0	6.19		1.41	8	.0	0	11	3	2
MOKIL ATOLL																							
NARSANG, BABELTHUAP																							
PONAPE WSO	R	88.6	76.5	82.6	1.8	91	24+	73	23+		9	0	0	0	6.17	- 8.87	2.49	31	.0	0	12	2	2
SATAWAN ATOLL																							
TRUK, MOEN I. WSO AP	R	86.8	78.0	82.4	1.1	88	31+	74	9+		0	0	0	0	4.85	- 3.13	3.37	9	.0	0	7	1	1
WOLEAI ATOLL																							
YAP WSO AP	R	87.9	74.5	81.2	.2	90	23	72	28+		1	0	0	0	2.04	- 3.54	.47	3	.0	0	6	0	0

SEE REFERENCE NOTES FOLLOWING STATION INDEX

WALLS AND PACE IN  
NORTH 1978

STATION		TOTAL	DAY OF MONTH																															
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
HAWAII																																		
ISLAND OF KAUAI																																		
ANAOHUA 1114	A	3.09	1.20	.75		x x .05		.12		.05	x x		.10		.70	.04	x	x	.10	.10		.20	x	x	y	.15			.03	.20				
BRYCESWOOD STA 985	A	2.92	.35	.24	.01			.01		.40	.06			.03	.04	.26	x	x	.23	.04	.03	.01	x	x	x	.21			.09	.19	.12			
EAST LAWA 934	A	3.01	.26	.20		x x .21				.14	.01	x x	.02		.35	.31	x	x	.39	.01	.02	.04	x	x	x	.27			.16	.30	.15			
ELELEE 927	A	1.37	.51	.24	T	x x .16				.01		x x			.07		x	x	.14				x	x	x	.15			.05	.28				
HALAULA 1110	A	3.08	.95	.20		x x .04		.25		.05	x x	x	.03		.55	.07	x	x	.17	.20	.10		x	x	x	.15			.05	.28				
KALEANAHOU 1006	A	3.85	.40	.28		x x .12		.02	.02	.35	x x	x	.10		1.06	.17	x	x	.49	.11	.06	.11	x	x	x	.19		.13	.21	.05				
KANEHE TUNNEL 1053	A	8.40			x	x x				.03			x	x									x	x	x									
KUKUPU 946	A	.99	.48	.16		.21	.11			.03																								
ILILIULA INTAKE 1050	A	7.63	1.11	.08		x x .22		.29	.42	.13	x x	x	.40	.01	.70	.30	.03	x	x	.82	.17	.40	.26	x	x	x	.88	.23	.54	.55				
INTAKE WAIRINHA PG 1086	A	11.10	1.33	x	.13	x x .36		x x		.10	x	x	T	3	.35	x	1.08	x	x	3.11	x		.85	x	x	x	.36							
KANA'OHULUHULU 1075	A	5.12	.96	.74		.02	.55	.67	.02	.01		.05			.65	.61	.28		.10	.04	.04	.04	.05	x	x	x	.60		.02	.05	.07			
KANEHA RESERVOIR 1092	A	6.50	1.20	.30		x x .08		.30	.20	.30	x x	x	.15		.85	.50			.07	.02	.05	.05	x	x	x	.60		.03	.30	.25				
KAPPA STABLES 1104	A	4.40	.54	.31		x x .02		.40		.02					.81				.20		.05		x	x	x	.18		.03	.07	.19				
KEALIA 1112	A	1.82	.75	.25		x x .02		.10		.02	x x	x	.05		.10	.04	x	x	.07	.07	.10		x	x	x	.10			.05	.10				
KEKAHA 944	A	1.29	.45	.18		.22	.16														.28													
KILAUEA 1134	A	3.06	.65	.14		.11		.05	.06	.25	.11	.05		.30		.10	.06	.30		.05	.06	.15	.11	.02	.07		.09		.06	.10	.20			
KILAUEA POINT 1133	A	2.30	1.04	.10		.05		.10	.33	.03	.06	.02		.03	.07	.20		.02		.05	.02	.04		.02	.01	x								
KOLO 1033	A	1.42	.55	.20		x .47	.20								.41	.47			.39		.06	.17	x	x	x	.24		.12	.30	.04				
KOLORA 936	A	3.30	.25	.21		x x .17		.09		.03	x x	x	.07		.73	.01	.47	.06	.08		.02	.03		.01	.07				.01	.03	.02			
KOLORA LN (MAX) 940.1	A	.78	.23	.08		.01	.02			.01																								
KOLORA MHUKA 984	A	3.40	.62	x	x			.34	.01	x	x			.31	.55	x	x	x	x	x	.74	.06	x	x	x	x	x	x	.53	.24	x	x		
KUKULUA 935	A	2.67	.41	.17		x x .17		.02		.01			T	.35	.41	x	x	.32	.01	.01	.05	x	x	x	.45		.05	.09	.08					
LIHUE VARIETY ST 1062.1	A	3.16	.46	.10		x x .02		.03	.01	.16	x	x	.15		.76	.16	x	x	.35	.11	.17	.04	x	x	x	.22		.03	.17	.11				
LIHUE 1020	A	2.17	.75	.11		x x .06		.02	.27	.02				.40	.03	T	x	x	.20	.02	.05	.02	x	x	x	.08		.04	.06	.05				
LIHUE MSD 1020.1 AP	✓R	1.48	.65					.03	.70	.03	.01	T		.07	.13	.01	.02	.12		.08		.03					.06		.01	.07				
MAKAHELE 965	A	.90	.30	.18		.28		.04												.01														
MANA 1026 42.12	A	1.41	.35	.42		.12																												
MOHINI UPR CROSS 1083	A	1.72	.70		.47	.47				.08																								
MOLOKA 1145	A	2.19	x	1.65	x	x	.12	x	x	x	x	x	x	20	x	x	x	x	x	.12	x	x	x	x	x	x	.10		x	x	x	x		
MOUNT WAIALEALE 1047	R	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
NIU RIDGE 1035	A	1.98	.82	.23		.93																												
N WAIIUA DITCH 1051	A	8.29	.92	.16	.01	x x .27		.69	.70	.27	x x	x	.31		.87	.56	.03	x	x	.76	.22	.11	.02	x	x	x	1.10		.19	.57	.57			
N WAIIUA BEVER 1055	A	8.29	.92	.16	.01	x x .27		.69	.70	.27	x x	x	.31		.87	.56	.03	x	x	.76	.22	.11	.02	x	x	x	1.10		.19	.57	.57			
PH WAINIMA 1115	A	9.75	4.39	T		x x .51	T			.27	x x	x	.04	.06	1.24	.52	T	x	x	1.26	.51	.36	.14	x	x	x	.28		.25	.11	.08			
PRINCEVILLE RANCH 1117	A	5.16	x	1.80		x x .14		.02	.10	.05	x x	x	.03	.63	.14	.01	x	x	.52	.12	.11	.03	x	x	x	.44		.08	.48	.45				
RIEHEU RIDGE 1040	A	2.04	.80	.27		.75	.22																											
RUHI 1013	A	1.28	.19	.11		x x .27				.14			.02		.04	.09	x	x	.06	T			x	x	x	.09		.06	.04	.12				
WAIHANA 930	A	1.36	.28	.22		x x .11				.01					.04	.09	x	x	.06	T			x	x	x	.09		.06	.04	.12				
WAIHANA LOWER 1054	A	5.32	.64	.36	.04	x x .05	.04	.28	.24	.02	.12	.10	.02	.11	.01	.64	.42	.02	.55	.15	.08	.11	.31	.14	.05	.06	.08	.07	.12	.19	.12			
WAIHANA UPPER 1052	A	6.34	.70	.39	.02		.32	.03	.48	.11	.10	.10	.03	.01	.47	.68	.03	.60	.23	.10	.05	.36	.10	.05	.25	.08	.02	.10	.30	.23	.4			
WAIHANA 943	A	2.67	.46	.18		.25	.10																											
WAIHANA KAI 1065	A	2.64	.66	.43		x x .07		.37		.02	x x	x	.07		.30	.09	x	x	.27	.02	.06	x	x	x	x	.10		.04	.12					
WAIHANA 947	A	1.00	.34	.18		.22	.11																											
WEST LAWA 931	A	2.57	.37	.22		x x .25		.02		.02					.27	.38	x	x	.34	.03	.05	.03	x	x	x	.08		.06	.10	.06				
ISLAND OF OAHU																																		
ALOHIA STADIUM-HAWAII	A	1.53	.21	.11		x .07		.03		.03				.06	.74	.01	.09				.08		x	.01		.04	.02	.03						
BERATANIA PUMPING STA	A	2.18	.17	.21		x .10		.05		.09				.01	1.26	.01	.04	x		.11	.01		T		.05	T		.07	.01	.03				
B Y U LAIE 903.1	A	4.18	1.23	.05		x .78		.09	.05	.23				.06	.03	.11		T		.02	.05	.05	T		.35	.45		.13	T	.10				
CAMPBELL 120 PK 702.5	A	6.4	.07	.15		.04	.03			.07	.15				.03	.15			T							T	.11		.04	T				
CAMP 84 807	A	1.89	.98	.02	x	x .16		x x	x	x x	x	x	.14	x	x	.21	x	x	.02	x	x	x	x	x	x	x	x	.26	x	.10				
COCONUT ISLAND 840.1	A	2.54	.94	.19	x	x .04	.01	.31		.04	x	x	.04	.01	x	.08	x	x	.03	T	.06	x	x	x	x	x	x	.69		.08				
EWA PLANTATION 741	A	.54	.19	.11	.01	x x .10		.03		.03				.07																				
HELEMANU INTAKE 881	A	5.33	x	.90	x	x .08		x x	x	x x	x	x	.77	x	1.84	x	x	.44	x	x	.44	x	x	x	x	.18		x	x	x				
HONOLULU OBSERV 702.2	A	.69	.25	.14		.01		.14	.01	.01				.11																				
HONOLULU MSD 703 AP	R	1.37	.31			.02	.06	.04	.01	.01			.01	.43	.28	T	T	T	T				.01		.11	T		.11	T	.06	T			
KANEHA POINT 841.3	A	3.42	x	x	x	x x	x	x 1.58	x	x x	x	x	x	.05	x	x	.32	x	x	.03	x	x	x	x	x	x	x	x	x	x	x	1.3		
KANEHA 883	A	14.72			x	x 1.96	x	x x	x	x	x	x	1.84	x	x	x	x	6.87	x	x	x	x	x	x	x	x	x	4.05	x	x	x			
KAILUA FIRE STA 791.3	A	2.80	1.70			.03	.03			.31					.15	.15													.36		.11	.03		
KAILIHI RES SITE 777	R	5.04	.36		.26	.14		.02	.92	.22	.50		.12	.20	.24	.18	.16	.06		.02	.04	.04	.20	.10	.02	.40	1.40		.04	.12	.18			
KANEHE MHUKA 781	A	4.61	1.68	.25		.29		.02	.01	.48	.11	.09		.01		.14		.13										.03	.81	.25		.15	.11	
KAPALANA 773	A	4.89	.56	.35		x x .17		.26		.20	x x	x	.14		.55	1.25	x	x	.25	.10	.10	.20	x	x	x	x	.24	.10	.40					
KAPAHAPA 841	A	4.95	2.29	.77		x x .90	.23																											

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STATION	TOTAL	DAY OF MONTH																																	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31			
HAWAII																																			
WAIKOLU 540	A	14.33	x	x	x		4.65	x			1.20	x	x		x	x	x		2.02	x		x	3.57	x		x	x	x		2.08	x	x	x		
ISLAND OF LANAI																																			
KANAPU 690	A	1.51								1.51																									
KANAPU HARBOUR 650	A	.70	.27	.08						.21							.12		.02																
LANAI AIRPORT 656	A	3.38	1.47	.20					.10	.01		1.08							.04	.20	x		.01							.06	.07	.02	.03		
LANAI CITY 672	A	3.20										2.64	x	x		x	x	x						.65	x	x	x								
LANAIHOLE 684	A																																		
MAHANA 694	A	3.13	x	x	x					x	x	3.03	x	x	x		x	x	x		x	x	x									.10	x		
MAHANA 676	A	1.18	x	x	x					x	x	x	x	x		1.18																			
MAHAKAUA 685	A	1.75	x	1.22	x					x	x	.45																					.08		
ISLAND OF MAUI																																			
AWAHI 252	A	3.17					2.10				.45					54		.08																	
HAELAAU 477	A	10.80																																	
HAELAAU B E S 434	A	8.53	1.55	.05						.48	.38	.20	.03	.02	.03		.05	.03	1.55	1.40	.50		.96	.11	.26					.05		.05			
HAELAAU BANCH 432	A	12.30	1.73	.15						.27	.04	.60					.02						1.02												
HAELAAU R5 338	A	5.52	.74	1.13	.01					T	.15	.17	T				.17	.34	1.31	1.14	.03		.10	T		.05	.04	T	T	.13	.01				
HAELAAU 423	A	5.11	.95	1.30	.01					.57	.01	.35					.01		.40	.70	x		.72	.09								.71			
HAKAUAPOKO 485	A	5.63	1.05	1.00						.10	.11	.82		.11	.17	.20		.03	.10	.05	.19	.23	.10	.22	.10	.16	.04	.08		.15	.14	.19	.14	.11	.04
HANA 354	A	8.28	1.60	.42						.78	.39	.27	.18	.15				2.38	.05	.19	.12	.19	.20	.02	.04	.18	.01	.62	x	.06	.25	.04	.04	.10	
HANA AIRPORT 341	A	8.28	.87	.18						.66	.81	.30	.02	.09	.03		.01	2.23	.88	.59	.10	.04	.11	.15	.12	.06	.40	.08	.15	.06	.18	.07	.09		
HOLIA CABIN 259.5	A	2.60								x																							2.60		
HONOKAUA 480	A	12.10								.02	3.85						.30		.02	.15	.25		.28	.10		.02							12.10		
HONOKAUA 493	A	3.68	.60	.16						.08	.01	.60																			.30	.16	.08	.05	
HONOLUA FIELD 40 404	A	11.80																															11.80		
HONOHANU GULCH 341	A	1.63	.40	.11				.02				.33	T		.03		.03	.46	.03	.04		.14	.01									.03			
KANAPALI AP 453.1	A	6.70								x	x	x	x	x	x		x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	6.70			
KAHOLA INTAKE 374	A	2.19	1.27						.29		.16	T				.02	.14	.16	T	.11		.02	T							.02					
KAILUI 436	A	10.30	x	x	x																												10.30		
KAILUA 446	A	14.72	2.70	.55						1.87	1.78	1.32	.35	x			.35	.45	.15	.57	.50	x		1.02	.60	.08	.11	x	1.61	.35	.10	.26			
KAUOLA INTAKE 375	A	4.34	x	1.15	x					x	.06	x	x	x	x		1.57	x	x	x	x	x		1.50	x	x	x	x	x	x	.06	x			
KEAHUA 410	A	2.51	.93	.64						.12	T	.11				T	T	.29	.19	.06		.15	.02	T											
KEANEE 346	A	18.50								x	x	x	x	x	x		x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	18.50			
KEANAKAPU BEACH 260.2	A	.90	.60	.14				.08		.03	.01					.02	.02	T																	
KIEFER 311	A	1.96	.80	.75			.16			.08		.63	1.38																						
KIPAHULU 258	A	7.98	.98	.50								.10					2.05	.25	.35	.31								.29	.31		.22				
KUKUI 388	A	41.20																															41.20		
KULA SANATORIUM 267	A	3.39	1.81	1.30	T			T	.04	.14	.05					T	.02																		
LAHAINA 361	A	.93	.45	.04								.09						.19	.07										.09		.03				
LAUNAPPOKO INTAKE 376	A	3.46	x	x	x	x	x	x	x	x	x	x	x	x	x		x	x	x	x	x	x	3.46	x	x	x	x	x	x	x	x				
LAUNAPPOKO VILLAGE 372	A	.71	.30								.05						.08												.28						
LUPI UPPER 442	A	15.00															.02																15.00		
MAHINA 466	A	3.53	.65	.15												.10		.50	.54	.20		.62		.87						.04	.04	.08			
MOKUPU 475	A	7.75	x	2.45	x																														
NAKALEA FIELD 60 407	A	5.62	x				2.30										1.45	x				.70	x							.20			.87		
OLINDA 332	A	10.27					2.90			.19	x		.82	x			.20	x	3.95	x		1.86	x	.05	x					.28	x		.02		
OLWALU 296.1	A	1.21	.75	.07							.07							.29	.03																
PRAKA 350	A	20.03					.29			2.40	3.18	x	1.77	x		1.16	1.78	.34	1.88	.91	x	x	2.00	1.31	x	.74	x	x	1.18	.18	x	x	1.01		
RAKA 406	A	2.80	.90	.60	.01					.02	.01	.03						.15	.18	.07		.09	.02	.06						.02					
PANILEHU 259.2	A	2.80	x							x	x	x	x	x	x		x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	2.80			
PEARL 489.6	A	8.29	.48				.84			.85	1.32	.27	.32	.11			.03	.32	.62		.07	.29	.50	.10	.61	.12	.05		1.13	.42	.11	.21	.52		
PDHAKA BRIDGE 307.2	A	1.73	1.18	.20						.28								.07																	
POLIPOLI SPRINGS 267.2	A	1.80								x	x	x	x	x	x		x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	1.80			
POHONOHAKA 2 343	A	2.52								x	x	x	x	x	x		x	x	x	x	x	x	x	x	x	x	x	x	x	x	x				
PUUNENE 386	A	2.92	1.30	.67	T					.22	T	.05					.02		.12	.10	T	.03	.10	T		.01									
SPRECKELSVILLE 400.2	A	2.40	.84	.66						.12	T	.28	.02				.02	.12	.16	.04		.07	.02	.02											
THIN GATES 261.3	A	1.72	x	1.72	x					x	x	x	x	x	x		x	x	x	x	x	x	x	x	x	x	x	x	x	x	x				
UKULELE 333	A	6.79	1.47	x						x	x	x	x	x	x		x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	6.32			
UKUMEHAME 301	A	1.27	.69	.13						.11								.23	.11																
ULUPALAKUA RANCH 250	A	1.75	1.08	.23			.05		.11	.09	.01					.17	.03																		
WAHIKULI 364	A	1.83	.54	.08						.50								.50	.17		.04														
WAHUKU CAMP 484	A	5.32	1.20	2.26				.25	.20	.78						.03	.19	.15		.13	.02														
WAHUKU VALLEY 482	A	4.33	1.13	.56				.30	.17	.88					.05		.04	.27	.46		.23	.08													
WAIKAMOI 449	A	17.60	x	x	x			x	x	x	x	x	x	x		x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	17.60			
WAIKAMOI DAM 336	A	17.56	x	x	x	1.28		.17	x		1.71	x			x	.64	x	6.10	x	x	6.00	x	.51	x						1.05	x	x	.10		
WAIKAPU 390	A	2.60	1.20	.66				.16	.05	.05							.22	.07		.14								.02							
WAILUKU 386	A	4.15	1.22	1.48																															

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STATION	TOTAL	DAY OF MONTH																															
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
HAWAII																																	
KONA VILLAGE 93.8	.92	.65										.24																				.03	
KUKAIKU 222	11.22	T		.15	T			2.69	1.41	.02			21		23	.58	.08	1.00	.59	.53	.94	.79	14	.99	.04	T	.10	.02	.19	.46	.05	.03	
KUKUIWALE HIC 199	10.86		.16					2.90	4.12	.16					.06	.04		.58	.03	.30	.72	.82	.08		.10	.05		.04	.20	.50		.03	
KUKUIWALE MILL 206	7.73		.05					1.19	2.52	.04					.11	.06	.04	.49	.74		x	1.65		.09	.11	x	x	x	.31	.33			
KULANI CAMP 79	7.50	x	.13	x		.08			.27	.95		.15	.60	x	2	10	.06		.41	.65	.11	.23	.28	.16	.34	.26	.18	.16	.05	.09	.05	.02	.10
KULANI MAUKA 76	A 1.75							x	x	x		x	x	x	.27	x	x	x	x	x	x	1.25	x	x	x	x	x	x	.23	x	x	x	
KULANI SCHOOL SITE 78	A 5.78	x	x	x		.05	x	x	x	x	1.13	x			x	x	x	x	x	x	x	x	x	x	x	x	x	4.60	T	x	x	x	
LANIKAU 68.2	5.26		.76	.73						.03	.53			.07		.07	.07		.03	.63	.03	1.01	.07	.65	.04					.42		.12	
MAKAHAU 103	2.96		.10	.62				.15		.09	.15					.05	.14	.63			.83								.20				
MAUKA 2	A 6.35		.40	.50											.30	.30	.70	T			1.25	1.55	T	x	x	x	1.05	x	x	x		.30	
MAUNA KEA 065 111.2	T		T																														
MAUNA LOA SLOPE 085	A .41														13	.01	.02	x	x	x	x	.08	.08		.08	T							
MIDDLE HOLUALOA 68.1	A 2.23	x	1.15	x	x	x	x	x	x	x	x	x	x	.10	x	x	x	x	x	x	x	.25	x	x	x	x	x	x	.73	x	x	x	
MIDDLE PEN 147.1	A .73		.62						.06													.05											
MORULA 18	A																																
MOUNTAIN VIEW 91	A 14.92								86	2.76	.04	x	x	1.29	2.84	.34	88	98	x	x	1.81	.15	1.09	.15	x	x	x	1.04	.21	.06	.24	.18	
NAALEHU 14	A 4.44	.04	.10	.02					38	.68			.26			.76	.13					T											
NAPPOPOO 28	A 2.50	x	x	x	x	x	.58	x	x	x	x	x		.28	x	x	x	x	x	x	x	.15	x	x	x	x	x	x	1.79	.12	1.49	x	
OKALA 223	10.92							1.21	1.38	.14	T	.04	.80		20	1.07	.06	.86	.80	.55	1.14	.15	.31	1.10	.05	T	.01	.04	.01	.51	.13	.17	
OPINIHAE 2 24.1	1.67	.29					.04		.01	.01	.01	T		T	.05	.15	T	.08		.57	.07	T					.05	.03	.25	.01	.05		
ORCHID LAND EST 91.5	A 9.04	x	x	.43	x	x	x	x	x	x	1.29	x	x	x	x	x	x	3.75	x	x	x	x	x	x	2.25	x	x	x	x	x	x	1.32	
PAUHAU 217	10.22							2.82	3.12	.22			.03		.11	.47	.01	.96	.02	.28	.69	.39	.02	.30	.01		.22	.03	.33	.19			
PAUJULO 221	11.83			.12	T			3.76	1.58	T		.13			21	.47	.02	1.00	.90	.37	.75	.73	.29	.69	T	T	15	T	.32	.32	.01	.01	
PAUJULO 21	A 3.52			.06				.08	.50							.76	.02																
PAUJULO 65	9.70			.01				.30	1.15		.16	x	x		.79	3.34	.11	.66	.19	x	x	.95	.22	25	.24	x		x	x	.56	19	.09	.25
PAKAO 37	A																																
PAPAIKOU 144.1	11.92							.02	1.07	1.09	.03	x	x		.74	3.77	.17	.79	.07	x	x	1.45	.20	.55	x	x	x	x	.87	.56	.14	.12	
PAPAIKOU MAUKA 140.1	10.81			.01				.98	2.25		.04	x	4		1.27	4.46	.06	1.17	.58	x	x	3.30	.55	2.10	x	x	x	.87	.37	.26	.32		
PIIHANUA 88	A 18.40	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	18	
POHAKULOA 107	.00																																
POHAKULOA HEIAU 98.1	A .44		.44					x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	2	
PUU LEHUA 73	A 2.10	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x		
PUU WAHAA 94.1	A 1.71		.08		x	x	.04	.08																									
SADDLE ROAD 1 84	A																																
SOUTH KONA 2.31	3.95	1.03	.68											.28	.02																		
SOUTH POINT CORRAL 3	A 1.13	x	x	.11	x	x	x	x	x	x	.40	x	x	x	x	x	x	x	.15	x	x	x	x	x	x	x	.47						
UPOLI POINT USCG 159.2	1.85	T	.11					.01	T	T	.26	T	.25		.01	T	.23	T			.60	.15	T					T	T	.14	.06	T	
WAIKAKEA SCD 88.2	16.43							.60	4.30		.05	.49	.57		T	2.82	.60	.80	.24	1.02	1.35	.74	.34		.93	.05	.41	.54	.13	.02	.19	.04	.08
WAIKALOA-8815 CAS 95.8	.35	.16						.01	T															.13	.05								

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STATION	TOTAL	DAY OF MONTH																																
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
PACIFIC																																		
***																																		
EAST OF 180TH																																		
MERIDIAN																																		
ATU U	35.97	.91		.11					.51	.11		.17	.80	.51		.02	.96	1.29	2.28	4.33	7.62	1.94	1.90	.61	3.21	2.41		.53	2.43	.29	.13	1.43	1.46	.
CANTON ISLAND	.63			.41						.03						.12		.02																.
FAGA ALU RESERVOIR																																		.
FALEASO VILLAGE	28.15	.48	.82	.16			.09	.18	1.92	1.03	2.07	.64	.88		.63	1.01	.94	1.75	1.67	2.48	2.18	.84	.80		.06	.78	1.67	.83	1.20	1.09	.91	.83	.	
JOHNSTON IS WSO AP	1.53	.14					.13				T				.04	.20	.05	.61	.01	.01	.02	.19	.01	.02	.02				.01	.01	.03	.03	.	
LEONE	24.83	.91								.08	1.18	.75	.65		1.40	.40	1.60	3.10	2.15	3.06	.46	1.97	.41	.46		.61	2.06	2.00	.78	.35	.04	.21	.	
FRENCH FRIGATE SHOALS																																	.	
MIDWAY SAND ISLAND	3.59		.65	.07	.03	T		.13	.08	T					.01						.95	.05	.02	.02			T	.35	.54	.25		.43	.01	
PAGO PAGO WSO AP	25.64	1.15	.06	T				.08	.03	.07	.16	.28	.80	.14	1.88	1.72	2.32	2.11	4.27	.53	.61	.65	3.53	.10	.04	.06	.51	2.80	.14	.03	1.31	.26	.	
***																																		
WESTERN PACIFIC ISL																																		
NORTH OF 12 N																																		
ANDERSEN AFB GUAM	.80	.03	T	T						T	T					T	T	.17	.12		.03		T	.07	.22	.25	T		T	T		.		
CLARK AFB LUZON	.72	.32								T		.40							T														.	
GUAM NAS																																	.	
GUAM WSO	.85	.02		.02			T	.01		T						.10	.04	.24	.12	.01	.02		.12	.09	.20								.	
MANGILAO	.38																					.06	.07										.	
ROTA																																	.	
SAIPAN LORAN																																	.	
Wake Island WSO AP	1.90			.02	T	T			.02	.03	.03	T	T	T	T	.03	.10				.01	T		T	.05		.12	T		1.49	T	.		
***																																		
CAROLINE AND																																		
MARSHALL ISLANDS																																		
ANGUAR																																	.	
ENEWETAK																.01			.09					.12				.16	.05				.	
FALALOP I ULITHI ATOLL																																	.	
KAPINGMARANGI ATOLL																																	.	
KOROR WSO	6.02	.02	.04	.53	.08	.04		T		T				.04	.05	1.30	.02			T		.15	.10	1.08	.22	.02	.08	.43	.01	.13	1.17	.50	.	
KWAJALEIN MISSILE RMN	4.58	T	T	.02	T			T	.14	.08	T	T			.01	T	.02				T		T	.01	.08	.04	.27	.64	2.55	.01	.01	T	.71	.
LELE I KOSARE																																	.	
MAJURO WSO AP	3.38	T			.03	.05	.07	.35	.75	.36								T	.34	T				.06	T	T	.07	.14	1.12		.02	.03	.	
METILANIM	6.19	.11	.07	.07				.03	1.41	.02	.36	.65	.26			.40	.22	.08	.01					.30	.25	.05	.03	.05	.40	.01	.03	1.38	.	
MOJIL ATOLL																																	.	
NGASANG ABDELTHUAP																																	.	
PONAPE WSO	6.17	.10	.14	T	.01			T	1.51	.24	.25	.02				.24	.21	.05			.10	.02		.06	.18	.20	T		.05	.29	T	.01	2.48	.
SATAHAN ATOLL																																	.	
TRUK MOEN I. WSO AP	4.85	.12	.03	T				T	.44	3.37	T	.42	.10		T				T		.12	T				.08	.13	T		.03	T	T	.01	.
WOLEAI ATOLL																																	.	
YAP WSO AP	2.04	.01	.09	.47	.06	.14	.03	T			.01	T	.27	.37	.13	.03			.21	T	.01	.05		T	.06	.01	T	T	.09				.	

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STATION		DAY OF MONTH																															AVERAGE
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
HAWAII																																	
• • •																																	
ISLAND OF KAUAI																																	
KANALOHULU 1075	MAX MIN	62 52	57 50	69 36	63 36	60 54	67 52	67 39	71 41	71 51	70 47	72 49	73 47	68 46	67 41	68 52	60 51	61 49	72 50	65 50	66 47	67 51	68 49	60 44	60 43	67 48	68 43	67 43	69 51	68 54	71 49	68 47	66.5 47.2
KILAUEA POINT 1133	MAX MIN	73 61	76 62	75 61	80 64	85 68	85 67	85 66	78 68	87 69	80 71	80 68	80 70	80 71	82 69	82 71	79 68	79 68	77 71	76 63	77 68	66 66	78 67	81 69	81 68	81 69	79 69		83 69	82 69	80.0 67.2		
KOLOA LN IMAKI 940.1	MAX MIN	78 62	78 63	80 62	83 66	87 68	86 68	87 65	87 65	82 72	83 70	86 72	85 68	82 70	85 68	84 68	82 70	78 69	76 68	76 64	80 64	80 68	79 70	81 68	84 65	84 67	80 68	81 66	81 70	81 69	82 72	82 67	82.0 67.3
LIMUE WSO 1020.1 AP	MAX MIN	81 61	80 62	81 61	84 59	84 68	80 62	81 60	80 70	82 71	83 68	83 71	82 71	82 66	83 66	81 67	76 68	76 65	79 66	80 66	80 67	80 67	81 66	82 66	83 65	80 65	82 68	82 64	81 67	82 71	81 68	81 71	81.1 66.1
MANA 1026	MAX MIN	74 61	72 62	77 58	79 62	80 64	80 65	78 59	82 62	82 64	85 60	84 62	83 62	83 62	85 61	88 61	83 57	83 60	83 60	83 60	85 60	85 62	83 64	85 60	84 61	85 65	84 61	85 65	84 63	86 61	85 61	82.3 61.5	
NIU RIDGE 1035	MAX MIN	82 53	82 52				79 53	79 53	81 52	80 52	82 58			85 55	85 55	85 55	85 55			85 53	85 52	85 53	86 53	86 53			85 53	85 52	85 52	89 62	89 59	84.1 54.0	
WAIAMI LOWER 1054	MAX MIN	72 57	76 56	75 49	75 51	74 50	77 56	74 48	74 60	75 62	76 59	77 61	76 57		77 58	77 54	74 61			77 56	77 60	74 55	76 50	77 57			74 55	79 57	77 53	76 63	75 64	74 64	75.4 56.9
• • •																																	
ISLAND OF OAHU																																	
ALOHA STADIUM-HALAWA	MAX MIN	81 63	77 65	80 58	80 59		85 68	78 64	81 65	83 69	83 68	82 68		83 61	84 62	82 69	80 66	76 66	67		78 68	80 68	79 69	80 64		83 63		80 67	83 69	82 69	82 69	81 70	80.9 65.9
B Y U LAIE 903.1	MAX MIN	75 63	77 63	77 60	76 60	84 60	80 60	85 61	81 52	82 70	81 69	83 70	82 72	81 68	81 70	81 71	80 68	75 68	76 67	81 66	80 66	80 67	80 69	81 65	80 65	81 66	81 63	81 63	81 70	82 69	81 71	80.4 66.2	
HONOLULU OBSERV 702.2	MAX MIN	80 61	78 65	80 56	78 59	81 66	82 67	81 62	82 61	84 68	86 65	83 65	87 64	85 62	83 62	87 63	84 65	79 66	81 63	80 66	82 60	85 61	83 66	84 62	83 61	82 61	82 64	84 64	83 68	85 70	83 68	82.5 63.6	
HONOLULU WSO 703 AP	MAX MIN	78 66	82 66	81 59	80 62	83 72	80 69	85 65	85 70	86 73	85 71	88 72	86 72	84 70	87 69	80 71	78 69	79 67	78 67	81 69	83 68	83 70	84 71	84 68	84 64	83 64	83 69	85 66	84 69	85 71	82 70	84 70	82.9 68.4
KANEONE MAUKA 781	MAX MIN	77 63	74 65	80 65	75 64	81 65	79 68	73 65	75 68	76 70	79 69	78 70	78 70	76 69	80 68	79 69	78 66	77 65		72 66	75 68	78 68	75 68	71 68	78 68	80 66	77 66	75 65	80 66	78 67	79 69	78 68	77.1 67.4
MANOA LYON ARBORETUM	MAX MIN	77 62	77 59	82 57	78 59	81 65	77 65	76 65	79 64	79 65	79 66	79 67	77 66	84 66	80 65	71 64	73 63	73 61	68 61	70 60	78 63	75 63	78 62	81 62	83 63	78 64	78 64	82 65	76 66	80 66	77 65	77.6 63.3	
OPAEULA 870	MAX MIN	75 59	70 55	78 53	77 57	79 58	78 57	70 57	70 59	79 60	80 60	79 64	85 65	80 61	85 62	80 62	75 65	70 60	72 64	70 62	73 60	72 60	72 63	72 61	77 61	74 61	72 63	79 64	72 63	75 64	75 65	75.7 61.0	
WAIALEE 896.3	MAX MIN	75 62	72 62	78 66	76 62	79 69	81 69	76 67	78 66	80 64	80 64	81 70	79 67	80 66	80 63	75 62	76 63		75 62	77 62	76 64	77 65	76 66	79 65	76 66	74 67	78 67	78 67	80 67	80 66	77.7 65.7		
WAIALUA 847	MAX MIN	76 61	75 62	76 54	80 56	80 66	84 66	75 58	80 58	85 61	85 59	79 62	82 60	80 59	84 58	85 60	81 63	75 58	75 62	75 60	77 58	79 62	79 58	81 59	81 58	78 62	75 62	73 60	82 63	82 63	83 65	80 60	79.4 60.4
WAIKIKI 717.2	MAX MIN	79 62	81 61	84 56	81 57	83 67	82 66	80 62	83 64	83 67	85 67	86 66	91 68	84 65	85 64	85 66	83 63	78 64	79 63	78 66	78 65	75 64	82 64	80 65	84 60	85 61	84 64	82 66	80 66	81 68	83 67	83 67	82.9 64.2
WAIMANALO EXP FARM	MAX MIN	80 65	73 63	79 59	76 61	80 62	78 68	76 66	78 68	78 68	80 71	79 70	81 69	80 68	79 67	81 69	79 67	74 66	78 66	75 67	78 68	79 68	78 68	80 64	80 63	80 66	78 65	80 68	80 70	80 69	80 70	78.5 66.7	
• • •																																	
ISLAND OF MOLOKAI																																	
MOLOKAI AP 524	MAX MIN																																
• • •																																	
ISLAND OF LANAI																																	
LANAI AIRPORT 656	MAX MIN																																
LANAI CITY 672	MAX MIN	69 63	68 62	75 58			76 62	71 63	69 61	73 61	79 60	73 62	75 58	79 60	78 62	71 61	65 61	68 60	65 61	69 61	70 62	70 61	71 62	73 61	76 63	74 63			74 63	76 63	74 64	74 59	72.4 61.4
• • •																																	
ISLAND OF MAUI																																	
HALEAKALA R5 338	MAX MIN	61 48	55 39	58 40	66 44	72 44	65 52	61 38	54 40	60 41	62 43	66 49	60 43	65 43	58 42	58 43	54 40	58 38	62 36	55 38	59 36		58 35	57 33	52 36	59 39	60 36	52 36	58 38	70 42	70 50	67 44	60.6 40.6
HANA AIRPORT 355	MAX MIN	86 65	82 63	86 69	79 62		85 58	81 66	78 68	78 69	81 69	82 70	81 69	82 68	81 66	80 66	75 67	78 65	78 64	78 65	75 65	80 66	80 63	80 63	80 63	78 64	80 67	80 63	81 67	81 68	80 69	80.3 66.1	
KAAHPALI AP 453.1	MAX MIN	79 65	77 66	78 69	78 61	80 69	79 67	78 68	80 67	77 65	84 65	82 67	81 65	82 66	83 67	83 65	80 66	73 67	77 65	75 66	78 63	77 62	80 66	80 62	80 62	86 62	80 66	81 67	83 66	83 69	81 69	79.8 65.6	
KAHULUI WSO 398 AP	MAX MIN	78 68	81 69	81 63	81 58	82 68	83 68	81 66	80 66	86 67	88 66	84 66	85 66	88 61	89 67	82 70	75 69	80 69	80 67	81 68	80 66	83 67	84 68	84 63	82 61								

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HAWAII																																	
LAHAINA 361	MAX MIN	80 67	84 66	80 60	82 61	82 69	82 69	85 65	86 65	85 65	84 66	84 65	86 65	86 68	85 66	88 66	83 66	84 61	83 63	84 65	85 64	84 63	83 64	84 63	83 66	84 66	86 67	86 66	86 64	85 66	85 67	87 66	84.1 65.1
WAILUKU 386	MAX MIN		82 64	80 65		83 61	82 67	77 67	75 68	81 65			84 63	82 66	83 67	79 66	72 67			77 65	75 66	78 68	79 68			80 64	80 66	80 68	80 69	79 69			
• • •																																	
ISLAND OF HAWAII																																	
HAWAII VOLCNS NP HD 54	MAX MIN	71 49	69 52	72 50	65 38	71 48	70 46	71 51	71 54	62 52	67 53	68 50	64 53	66 48	70 54	66 50	63 51	63 46	64 50	62 50	59 50	63 50	65 49	66 48	68 52	65 52	68 51	68 49	69 49	67 53	69 53	69 50	66.8 50.0
HILO WSO AP 87	MAX MIN	83 63	81 68	81 65	83 59	89 63	87 64	78 65	79 68	81 68	85 67	82 66	81 66	84 63	82 66	80 63	82 68	80 66	78 65	78 65	77 66	79 64	81 64	80 65	81 64	81 64	80 65	82 63	83 67	81 66	80 67	79 66	81.2 65.1
KAINALIU 73.2	MAX MIN	78 60	71 58	76 56	77 55	76 55	79 58	80 59	77 59	78 62	78 59	80 59	80 59	79 58	77 59	76 59	79 60	80 57	77 56	75 56	72 60	73 60	75 58	75 57	77 56	79 56	78 57	76 56	77 57	80 62	76 62	75 60	76.9 58.4
KAMUELA 192.2	MAX MIN	74 55	69 55	70 55			76 45	76 50	69 57	73 61	71 50			76 49	76 47	76 58	69 57	65 54			67 53	66 55	68 55	71 56				76 51	72 55	72 57		66 56	
KAPOHO BEACH 93.11	MAX MIN	83 66	83 67	88 68	84 61	87 62	83 63	84 66	84 65	84 66	83 66	88 65	85 67	83 66	85 66	85 66	81 69	80 68	78 65	79 66	81 63	78 64	83 65	82 64	82 65	83 63	82 65	84 66	84 66	84 66	83 65	81 66	83.0 65.9
KEAAU 92	MAX MIN	84 60	84 63	83 63			85 59	86 62	79 63	78 66	80 65			82 62	82 62	80 63	78 62	77 62			76 62	75 61	78 62	78 61				79 61	80 62	79 64	78 63	78 63	80.0 62.3
KOHALA MISSION 175.1	MAX MIN	81 69	78 66	78 65	76 60	77 58	81 62	83 66	71 65	78 66	78 64	82 65	74 66	73 61	79 65	78 66	76 66	73 65	75 61	74 61	73 61	72 62	77 63	77 64	78 63	79 64	78 63	77 63	77 64	78 65	77 64	74 63	76.8 63.8
KONA (KAILUA) 68.3	MAX MIN	83 68	81 68	81 64			82 64	81 70	81 69	83 69	83 69			85 69	83 69	84 68	82 68	84 68			83 66	81 67			83 68	82 67		85 66	83 68	83 71	83 68	82 69	82.6 67.9
KULANI CAMP 79	MAX MIN	60 52			59 38	67 45	69 40	62 53	63 47	60 45	62 50	62 42	62 44		65 50	62 45	55 46	56 42	54 42	55 41	55 41	48 45	56 43	60 38	57 41	61 41	61 44	59 40	63 40	59 48	62 45	59 43	59.8 44.0
MAUNA LOA SLOPE OBS	MAX MIN	50 34	49 34	55 36	55 35	59 41	56 39	51 37	52 36	55 38	56 39	57 38	54 38	53 34	45 31	45 29	46 29	46 30	46 28	48 26	45 30	43 27	43 26	51 29	49 32	53 33	55 34	57 39	56 36	58 41	56 37	52 37	51.5 34.0
MOUNTAIN VIEW 91	MAX MIN	82 56	80 59	79 57			79 51	83 56	75 57	69 61	76 61			78 55	77 58	74 57	72 56	70 56			73 57	69 57	74 56	74 55				76 55	78 60	76 60	73 59	74 59	75.5 57.2
NAALEHU 14	MAX MIN	84 59	80 62	79 62	75 60	75 57	84 58	87 61	80 64	78 64	78 66	76 64	72 64	79 62	79 64	78 60	79 60	78 55	77 57	74 59	79 59	75 59	78 62	78 61	75 58	78 59	75 56	77 58	73 58	77 64	78 65	77 64	77.9 60.7
OOKALA 223	MAX MIN	81 63	82 65	80 65	75 62	78 62	81 63	81 65	70 66	79 66	80 67	82 67	78 67	76 67	80 65	78 65	77 65	74 62	76 63	70 62	73 64	75 63	75 62	76 62	76 64	78 65	78 65	78 64	77 64	78 65	78 66	75 64	77.3 64.4
OPIHIHALE 2 24.1	MAX MIN	72 60	76 53	75 54	75 51	80 56	80 56	76 56	75 58	76 55	80 56	79 55	80 56	79 59	76 56	79 56	80 55	79 57	76 57	74 54	75 57	75 54	78 56	79 59	80 58	76 57	77 55	75 56	80 58	75 62	77 63	77 59	77.1 56.7
PAHALA 21	MAX MIN	83 61	85 60	80 66			80 57	82 62	81 64	76 65	79 66			81 62	82 62	80 60	81 61	84 57			82 58	78 57	77 59	79 58				80 60	80 61	78 61	80 62	78 61	80.3 60.9
PUUKOHOLA HEIAU 98.1	MAX MIN	79 72	84 65	84 61	85 64	85 62	86 62	84 63	84 63	84 63			86 66	85 67	87 67	93 64	89 60	89 62	89 65	89 59	89 64	88 66	87 64	87 64	85 66	89 66	89 66	89 64	86 64	86 68	87 63	87 64	86.5 64.3
SOUTH KONA 2.31	MAX MIN	75 60	64 53	78 56	74 50	75 59	76 55	73 56	74 59	74 59	76 58	71 60	71 60	75 57	76 61	76 54	75 55	77 52	73 53	72 52	73 54	73 54	75 53	77 54	75 52	72 54	70 54	72 54	73 55	77 59	74 57	74 55	74.0 55.6
UPOLU POINT USCG 159.2	MAX MIN	83 74	81 75	81 70	81 67	82 70	82 65	84 70	80 70	84 70	83 68	84 72	85 68	83 66	84 72	83 71	82 68	80 69	79 66	79 63	78 64	77 69	80 66	81 67	81 65	82 67	82 65	81 64	81 67	83 65	81 66	81 66	81.5 67.9

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STATION		DAY OF MONTH																															AVERAGE
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PACIFIC																																	
• • •																																	
EAST OF 180TH MERIDIAN																																	
CANTON ISLAND	MAX MIN	84 78	89 80	89 80	90 81	90 80	90 80	90 82	91 81	90 81	89 81	90 81	90 81	91 81	91 81	89 81	90 82	90 80	91 80	91 81	91 79	91 79	90 80	90 80	91 82	90 80	90 82	91 82	90 82	91 82	90.0 80.6		
JOHNSTON IS WSO AP	MAX MIN	81 69	79 74	81 74	82 76	83 75	81 72	81 75	80 74	81 74	82 76	82 76	81 76	81 72	81 72	79 70	79 73	79 75	80 75	80 73	80 74	80 75	81 75	81 75	82 75	81 75	82 76	82 75	82 76	81 74	80.8 74.3		
LEONE	MAX MIN	86 79	90 82	90 82	89 82	93 85	95 88	94 88	93 86	94 86	86 75	85 81	89 84	85 76	85 80	85 78	83 77	83 76	83 76	85 80	84 75	88 80	89 82	92 85	89 84	92 75	92 82	92 83	92 81	90 81	89 81	90 84	88.5 81.1
FRENCH FRIGATE SHOALS																																	
MAX MIN																																	
MIDWAY SAND ISLAND	MAX MIN	64 56	71 59	70 61	66 54	66 58	68 58	73 60	69 58	71 62	70 56	66 53	67 58	66 57	68 57	70 63	71 63	74 64	75 66	73 64	72 64	75 66	70 63	70 63	76 64	77 64	74 62	75 62	70 59	69 58	71 65	70 60	70.5 60.5
PAGO PAGO WSO AP	MAX MIN	85 73	87 72	87 77	88 74	89 74	88 72	88 78	88 80	87 80	86 77	86 78	87 76	83 76	85 75	81 73	83 76	81 76	80 74	82 73	84 73	87 75	82 74	85 72	88 77	89 75	87 74	82 74	87 77	88 75	84 75	87 74	85.5 75.1
• • •																																	
WESTERN PACIFIC ISL. NORTH OF 12 N																																	
ANDERSEN AFB GUAM	MAX MIN	81 74	80 75	80 75	79 74	80 74	79 74	81 75	81 76	81 74	81 75	80 74	82 75	81 76	82 76	82 76	83 76	82 74	83 75	84 77	83 75	83 76	83 76	81 76	82 76	82 76	82 76	81 75	84 75	85 76	84 75	81.8 75.3	
CLARK AFB LUZON	MAX MIN	86 73	88 72	90 72	93 75	91 73	91 73	93 73	95 73	95 72	93 75	93 75	88 73	88 73	90 72	90 72	88 73	91 75	91 79	93 75	90 75	93 72	93 75	93 75	93 73	93 73	93 75	93 75	93 75	93 75	93 75	91.6 73.8	
GUAM NAS	MAX MIN																																
GUAM WSO	MAX MIN	84 74	83 72	84 66	83 62	84 66	85 63	86 72	85 69	86 68	84 72	86 67	87 70	87 71	87 73	86 74	85 76	86 72	85 72	87 75	86 74	86 73	87 75	86 72	85 73	86 73	86 73	86 73	87 72	87 67	87 64	87 66	85.6 70.6
SAIPAN LORAN	MAX MIN																																
WAKE ISLAND WSO AP	MAX MIN	78 70	80 69	80 71	80 70	81 71	69	82 71	83 70	81 69	82 69	77 69	82 72	82 72	83 72	85 72	83 71	85 75	85 75	85 73	85 73	85 72	83 73	84 71	85 73	85 73	84 70	84 73	82 72	80 68	83 73	82 75	82.5 71.5
• • •																																	
CAROLINE AND MARSHALL ISLANDS																																	
ENEWETAK	MAX MIN													86 79	87 77	87 78		85 77	86 77		85 75	86 78	85 75	86 75	86 76	86 77	86 76	85 76	82 76	85 73	70 77	88 80	
FALALOP I ULITHI ATOLL	MAX MIN																																
KAPINGAMARANGI ATOLL	MAX MIN																																
KOROR WSO	MAX MIN	86 77	87 76	82 75	87 75	87 77	88 76	88 77	87 76	88 78	91 75	87 75	90 75	88 77	85 76	88 75	87 76	88 77	88 77	90 76	88 76	88 71	90 77	88 76	89 78	89 77	88 77	89 78	88 77	89 75	88 76	88 75	87.9 76.1
KWAJALEIN MISSILE RGN	MAX MIN	87 78	87 78	87 77	86 78	86 79	87 78	86 80	86 78	87 77	87 79	87 78	87 79	87 78	87 76	87 80	87 78	87 79	88 80	89 78	88 80	89 80	88 76	88 77	88 75	88 76	86 76	81 74	86 79	87 79	87 80	85 77	86.9 78.0
LELE I KOSRAE	MAX MIN																																
MAJURO WSO AP	MAX MIN	86 77	86 78	86 78	85 74	87 75	86 76	82 74	86 74	85 75	85 79	87 78	86 77	87 76	88 75	87 77	86 79	88 77	86 74	87 78	86 76	87 76	88 77	87 78	86 78	87 76	87 75	87 75	87 77	86 75	87 79	87 78	86.4 76.5
METALANIM	MAX MIN	86 73	86 77	86 76	86 75	84 79	85 79	84 74	85 72	87 72	87 73	85 71	80 80	86 79	85 78	87 76	84 75	88 78	86 79	87 78	88 79	88 73	88 78	87 76	86 78	86 77	86 78	85 77	87 77	86 78	84 76	85.7 76.5	
PONAPE WSO	MAX MIN	88 75	88 75	89 77	89 74	88 77	88 78	89 78	83 73	88 73	89 76	90 77	88 78	89 79	89 77	88 75	88 78	88 79	89 77	89 79	89 78	91 79	88 73	88 76	91 76	90 79	90 77	90 77	90 78	90 77	83 75	88.6 76.5	
SATAWAN ATOLL	MAX MIN																																
TRUK, MOEN I. WSO AP	MAX MIN	87 77	87 79	86 78	88 77	87 79	87 79	87 79	86 74	81 74	86 79	86 76	87 78	86 79	86 79	86 78	86 77	87 78	86 78	88 77	88 79	87 79	88 79	88 79	87 78	87 77	87 76	87 79	88 80	88 80	88 80	88 76	86.8 78.0
WOLEAI ATOLL	MAX MIN																																
YAP WSO AP	MAX MIN	88 75	88 75	88 74	86 72	87 75	85 75	87 75	88 76	88 76	88 75	88 73	86 74	88 74	88 73	87 75	88 76	88 76	88 75	88 76	88 72	88 75	90 76	89 73	89 76	89 73	89 72	89 74	87 72	88 74	89 76	89 75	87.9 74.5

SEE REFERENCE NOTES FOLLOWING STATION INDEX

# EVAPORATION AND WIND

HAWAII AND PACIFIC  
MARCH 1978

STATION	DAY OF MONTH																															TOTAL OF AVG.	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
HAWAII																																	
• • • ISLAND OF KAUAI																																	
LIHUE WSO 1020-1 AP	EVAP	.22	.15	.26	.31	.13	.25	.25	.23	.21	.30	.28	.33	.31	.29	.31	.33	.34	.26	.33	.33	.23	.36	.29	.15	.29	.25	.33	.35	.27	.36	.39	8.69
	WIND	85	109	78	91	137	123	100	152	171	160	148	186	171	113	187	310	287	250	279	237	242	242	203	140	111	178	136	221	250	261	294	567.2
	MAX	74	74	74	79	76	80	80	80	80	82	82	82	81	83	85	74	79	74	75	78	77	78	79	83	81	76	79	81	81	80	78	79.0
	MIN	56	54	52	53	61	61	53	63	65	51	62	61	60	59	62	60	57	56	57	57	57	57	58	57	57	55	58	58	61	62	62	58.1
• • • ISLAND OF OAHU																																	
HONOLULU OBSERV 702-2	EVAP	.13	.19	.19	.30	.30	.24	.22	.30	.38	.37	.41	.38	.38	.38	.30	.26	.35	.30	.34	.35	.38	.35	.38	.45	.35	.30	.30	.30	.30	.41	.37	9.96
	WIND	42	59	39	46	60	50	48	27	38	31	35	33	33	43	26	47	53	39	41	41	36	37	32	41	24	23	22	30	45	41	49	1211
	MAX	80	79	76	83	87	89	82	84	84	90	91	93	89	89	95	85	85	83	82	85	88	83	85	83	84	81	81	82	81	85	86	84.8
	MIN	63	61	56	57	61	68	62	62	65	66	67	65	63	63	65	65	60	61	62	61	62	62	62	63	63	65	65	64	65	67	69	63.2

SEE REFERENCE NOTES FOLLOWING STATION INDEX

# EVAPORATION AND WIND

HAWAII AND PACIFIC  
MARCH 1978

STATION	DAY OF MONTH																															TOTAL OR AVG.		
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31			
PACIFIC																																		
• • • EAST OF 180TH MERIDIAN																																		
JOHNSTON IS WSO AP	EVAP	.29	.46	.21	.47	.16	.22	.30	.34	.31	.32	.50	.55	.40	.37	.37	.32	.40	.37	.44	.31	.39	.36	.27	.38	.45	.33	.36	.39	.46	.35	.38	11.23	
	WIND	218	209	120	203	51	125	206	185	214	125	321	214	200	227	282	272	334	281	241	204	250	204	206	185	173	147	188	249	246	237	210	6533	
	MAX	84	84	85	88	84	87	87	87	86	86	85	85	87	86	82	80	80	80	80	85	84	86	84	83	85	86	86	87	87	84	84	86	84.8
	MIN	68	64	65	74	68	70	73	68	68	69	68	68	68	69	68	68	68	68	67	67	68	68	68	68	67	67	66	67	68	68	72	68	68.2
• • • WESTERN PACIFIC ISL. NORTH OF 12 N																																		
GUAM WSMO	EVAP	.26	.17	.32	.26	.30	.37	.43	.28	.25	.34	.25	.30	.31	.34	.24	.24	.22	.39	.34	.33	.27	.34	.27	.08	.35	.33	.38	.45	.36	.36	.34	9.46	
	WIND	238	117	127	79	92	45	116	138	76	121	89	130	127	113	104	139	135	193	218	155	141	168	122	156	197	145	139	145	95	90	70	4020	
	MAX	84	83	86	85	87	86	86	84	88	85	90	89	93	91	92	87	91	88	90	91	90	90	88	89	88	90	92	92	94	93	93	88.9	
	MIN	77	69	66	61	61	62	66	65	64	66	67	68	70	64	72	71	71	71	70	73	70	72	72	73	71	69	70	68	66	68	69	68.5	

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## STATION INDEX

HAWAII AND PACIFIC  
MARCH 1978

STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES				OBSERVER
								TEMP.	PRECIP.	EVAP.	SPECIAL (SEE NOTES)	
HAWAII												
ISLAND OF KAUAI												
ALEXANDER RESV. 983	0140	02	KOLOA	2	21 57	159 32	1610					MCBRYOE SUGAR CO.
ANAHOLA 1114	A 0145	01	KAWAIIHAU	1	22 08	159 18	180		7A		C	LIHUE PLANTATION CO
BRYOESWOOD STA 985	A 0240	02	KOLOA	2	21 56	159 32	720		7A			MC BRYOE SUG CO LTD
EAST LAWA 934	A 0456	02	KOLOA	2	21 55	159 30	440		7A			MC BRYOE SUG CO LTD
ELEEELE 927	A 0470	02	KOLOA	2	21 54	159 35	150		6A			MC BRYOE SUG CO LTD
HALAULA 1110	A 0935	01	KAWAIIHAU	1	22 07	159 19	253		7A			LIHUE PLTN CO LTD
HALENANAO 1006	A 1038	02	LIHUE	2	21 58	159 26	490		8A			LIHUE PLANTATION CO
HANAHANAPUNI 1055.2	1140	02	KAUAI	2	22 03	159 25	600				C	LIHUE PLANTATION CO LTD
HANAIEI TUNNEL 1053	A 1170	01	KAWAIIHAU	1	22 05	159 28	1218		MZ			LIHUE PLTN CO LTD
HUKIPO 945	2161	03	WAIMEA	3	21 59	159 41	800		8A			KEKAHA SUGAR CO LTD
ILIILILUA INTAKE 1050	A 2222	02	LIHUE	2	22 02	159 28	1050		VAR			LIHUE PLTN CO LTD
INTAKE WAINIHA PC 1086A	2227	01	HANAIEI	1	22 09	159 34	690		WI			MC BRYOE SUG CO LTD
KANALOHLULU 1075	3099	03	WAIMEA	3	22 08	159 40	3600	7A	7A		C	STATE DIVISION OF PARKS
KANEHA RESERVOIR 1092	A 3104	01	KAWAIIHAU	1	22 08	159 23	830		7A			LIHUE PLANTATION
KAPAA STABLES 1104	A 3159	01	KAWAIIHAU	1	22 05	159 20	175		7A		C	LIHUE PLTN CO LTD
KEALIA 1112	A 3982	01	KAWAIIHAU	1	22 06	159 19	9		7A			LIHUE PLTN CO LTD
KEKAHA 944	4272	03	WAIMEA	3	21 58	159 43	9		8A		C	KEKAHA SUGAR CO LTD
KILAUEA 1134	A 4561	01	HANAIEI	1	22 13	159 25	320		7A		C	NICK RAPOZO
KILAUEA POINT 1133	4568	01	HANAIEI	1	22 14	159 24	180	7A	7A			MRS ELIZABETH MACIOLEK
KOLO 1033	4735	03	WAIMEA	3	22 04	159 46	36		7A			KEKAHA SUGAR CO LTD
KOLOA 936	A 4742	02	KOLOA	2	21 55	159 28	240		8A			MCBRYOE SUGAR CO
KOLOA LN (MAK) 940.1	4748	01	KAUAI	2	21 52	159 27	52	7A	7A			AUSCG LORAN STATION
KOLOA MAUKA 994	A 4750	02	KOLOA	2	21 57	159 29	640		7A			MCBRYOE SUGAR COMPANY
KUKUIULA 935	A 4950	02	KOLOA	2	21 54	159 30	100		6A			MC BRYOE SUG CO LTD
LIHUE VARIETY ST 10621A	5560	02	LIHUE	2	22 01	159 23	380		7A		C	LIHUE PLANTATION CO LTD
LIHUE 1020	A 5575	02	LIHUE	2	21 59	159 22	207		7A			LIHUE PLTN CO LTD
LIHUE WSO 1020.1 AP	R 5580	02	LIHUE	2	21 59	159 21	103	MID	MID	7A	J	NATL WEATHER SERVICE
MAKAWILI 965	A 5864	03	WAIMEA	3	21 55	159 38	140		7A			OLOKELE SUGAR CO
MANA 1026	6082	03	WAIMEA	3	22 02	159 46	20	8A	8A			KEKAHA SUGAR CO LTD
MOHIAI UPR CROSS 1063	A 6433	01	WAIMEA	3	22 07	159 36	3500		MID			U S GEO SURVEY
MOLOAA 1145	A 6529	01	KAWAIIHAU	1	22 11	159 20	330		7A			THEODORE JAVELLANA JR
MOUNT WAIALEALE 1047	R 6565	03	WAIMEA	2	22 04	159 30	5148		MID			U. S. GEO. SURVEY
NIU RIDGE 1035	6850	03	WAIMEA	3	22 02	159 44	1250	6A	6A			KEKAHA SUGAR CO LTD
N WAILUA DITCH 1051	A 6888	02	LIHUE	2	22 04	159 28	1110		7A			LIHUE PLTN CO LTD
N WAILUA RIVER 1055	A 6893	02	KIHUE	2	22 04	159 26	650		MZ			LIHUE PLTN CO LTD
PH WAINIHA 1115	8155	01	HANAIEI	1	22 12	159 34	101		6A		C	MC BRYOE SUG CO LTD
PRINCEVILLE RANCH 1117	8165	01	HANAIEI	1	22 13	159 29	295		9A		C	PRINCEVILLE RANCH INC
PUEHU RIDGE 1040	8205	03	WAIMEA	3	22 01	159 42	1660		8A			KEKAHA SUGAR CO LTD
PUHI 1013	A 8217	02	LIHUE	2	21 58	159 24	329		8A			LIHUE PLANTATION CO
WAIHAWA 930	A 8941	02	KOLOA	2	21 54	159 34	215		7A		C	MC BRYOE SUG CO LTD
WAIHAI LOWER 1054	8958	02	LIHUE	2	22 01	159 27	565	6A	6A			LIHUE PLTN CO LTD
WAIHAI UPPER 1052	8966	02	LIHUE	2	22 01	159 28	780		6A			LIHUE PLTN CO LTD
WAIHAWA 943	9253	03	WAIMEA	3	21 59	159 43	10		8A			KEKAHA SUGAR CO LTD
WAILUA KAI 1065	A 9467	02	LIHUE	2	22 02	159 21	50		7A			LIHUE PLANTATION
WAIMEA 947	9629	03	WAIMEA	3	21 58	159 41	20		8A			KEKAHA SUGAR CO.
WEST LAWA 931	A 9955	02	KOLOA	2	21 54	159 31	210		6A			MC BRYOE SUG CO LTD
ISLAND OF OAHU												
AHUIMANU LOOP 839.12	0055	01	KOOLAUPOKO	1	21 26	157 51	320					DON MITCHELL
ALOHA STADIUM-HALAWA	0172	03	OAHU	3	21 23	157 56	40	8A	8A		C	ALOHA STADIUM
BRETANIA PUMPING STA	0211	02	HONOLULU	2	21 19	157 51	20		9A			BOARD OF WTR SUPPLY
B Y U LAIE 903.1	0240	01	KOOLAUPOKO	1	21 39	157 56	20	12M	12M			B Y U-HAWAII CAMPUS
CAMPBELL INO PK 702.5	0248	02	OAHU	3	21 19	158 07	10		8A			CHEVRON U S A INC
CAMP 84 807	A 0300	03	EWA	3	21 26	158 04	760		6A		C	OEL MONTE CORPORATION
COCONUT ISLAND 840.1	0350	01	KOOLAUPOKO	1	21 26	157 47	15		8A			H INST MARINE BIOLOGY
OWSETT HIGHLDS 780.8	0438	02	HONOLULU	2	21 21	157 50	565				C	J.L. BANNING
EWA PLANTATION 741	0507	03	EWA	3	21 21	158 02	5		7A			OAHU SUGAR COMPANY
HALAWA SHAFT 771.2	0964	02	HONOLULU	2	21 23	157 54	170				C	BOARD OF WATER SUPPLY
HAWAII KAI CRSE 724.19	1308	02	OAHU	2	21 18	157 39	21				C	HAWAII KAI GOLF COURSE
HELEMANO INTAKE 881	A 1384	05	WAILUA	5	21 33	158 00	1274		WI		C	WAILUA SUGAR CO. INC.
HOKULOA 725.2	A 1540	03	EWA	3	21 24	158 06	2260				C	WILLIAM M KIRKPATRICK
HONOLULU ODSERV 702.2	1918	03	EWA	3	21 19	158 00	5	9A	9A	9A		NATIONAL WEATHER SERV
HONOLULU WSO 703 AP	1919	02	HONOLULU	2	21 20	157 55	7	MID	MID		C	NATL WEATHER SERVICE
KARLAKEI 724.6	2269	02	HONOLULU	2	21 18	157 43	10				C	CLOSED 11/30/72
KAENA POINT 841.3	2410	04	WAILUA	4	21 34	158 15	1240		9A			U S AIR FORCE
KAHANA 883	A 2462	01	KOOLAULOA	1	21 31	157 54	800		WI			WAIHOLE WTR CO LTD

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## STATION INDEX

HAWAII AND PACIFIC  
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STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES				OBSERVER
								TEMP.	PRECIP.	EVAP.	SPECIAL (SEE NOTES)	
ISLAND OF OAHU												
KAHUKU 912	A 2570	01	KOOLAULOA	1	21 42	157 59	15				C	KIULIMA HOTEL
KAILUA FIRE STA 791.3	2683	01	KOOLAUPOKO	1	21 24	157 45	10		8A		C	KAILUA FIRE STATION
KALIHI RES SITE 777	R 2960	02	HONOLULU	2	21 23	157 50	910		M10			BOARD OF WTR SUPPLY
KANEHE MAUKA 781	3113	01	KOOLAUPOKO	1	21 25	157 49	325	7A	7A			STATE HOSPITAL
KAPALAMA 773	A 3268	02	HONOLULU	2	21 21	157 52	614		8A			KAMEHAMEHA SCHOOLS
KAWAIHAPAI 841	A 3734	05	WAIALUA	5	21 35	158 11	40		7A			WAIALUA SUGAR CO. INC.
KEMOO CAMP 8 855	A 4318	05	WAIALUA	5	21 33	158 05	725		7A			WAIALUA SUGAR CO. INC.
KOOLAU DAM 833	A 4766	05	WAIHANA	5	21 30	157 58	1160		8A			C & F OFFICER HEOG
LULUKU 781.7	5655	01	KOOLAUPOKO	1	21 24	157 49	240				C	NATIONAL WEATHER SERV
MAKAHA PUMP 800.2	A 5782	04	OAHU	4	21 29	158 12	400		8A		C	CAPITAL INVESTMENT CO
MAKAKILO 730.1	5789	03	OAHU	3	21 21	158 06	300		6A			NEAL ADAMS
MANOA 712.1	6122	02	HONOLULU	2	21 19	157 49	220		7A			CHARLES COOKE
MANOA LYON ARBORETUM	6128	02	OAHU	2	21 20	157 48	500	8A	8A			LYON ARBORETUM
MANOA TUNNEL 2 716	R 6130	02	HONOLULU	2	21 20	157 48	650		M10			BOARD OF WTR SUPPLY
MAUNAWILI 787.1	6222	01	KOOLAUPOKO	1	21 21	157 46	395				C	EXP STN H S P A
MOANALUA 770	6395	02	HONOLULU	2	21 21	157 54	20		9A			JOHN A ROXBURGH
MOUNT KAALA 844	6553	04	WAIANAE	4	21 31	158 09	4015				C	FEDERAL AVIATION ADM
NUUANU RES 4 783	6928	02	HONOLULU	2	21 21	157 49	1048		M10			BOARD OF WTR SUPPLY
NUUANU RESERVR 5 775	A 6933	02	HONOLULU	2	21 21	157 50	410		WI			BOARD OF WTR SUPPLY
OPAUELA 870	A 7150	05	WAIALUA	5	21 34	158 02	1060	7A	7A		C	WAIALUA SUGAR CO. INC.
PAIKO OR 723.4	7540	02	HONOLULU	2	21 17	157 44	10		5P			O L GRUBB
PALI GOLF COURSE 788.1	7656	01	OAHU	1	21 23	157 47	480		10A			CC DEPT PKS RECREATION
PALOLO VALLEY 718	R 7664	02	HONOLULU	2	21 20	157 46	995		M10			BOARD OF WTR SUPPLY
PAUOA FLATS 784	R 7810	02	HONOLULU	2	21 21	157 48	1640		M10			BOARD OF WTR SUPPLY
PEARL COUNTRY CL 760.2	7942	03	OAHU	3	21 23	157 56	120				C	PEARL COUNTRY CLB OF HA
PUNALUU PUMP 905.2	8314	01	KOOLAULOA	1	21 35	157 54	20				C	MRS DAVID DELAO
PUNCHBOWL CRATER 709	A 8316	02	HONOLULU	2	21 19	157 51	360		8A			NAT MEM CEMETERY
PUPUKA HEIGHTS 896.4	8342	01	WAIALUA	1	21 39	158 02	900				C	JACK N. WHEELER
PUU MANAWAHUA 725.6	8500	03	OAHU	3	21 23	158 06	1690		8A			HUGH HAMILTON
TANTALUS 2 780.5	8738	02	HONOLULU	2	21 20	157 50	1325		7A			R. E. WHITE
UNIV OF HAWAII 713	A 8815	02	HONOLULU	2	21 18	157 49	79		8A			DEPT OF GEOSCIENCE
UPPER WAIHAWA 874.3	8838	05	OAHU	5	21 31	158 01	1115		6A			CLOSED 12/31/77
WAIHAWA DAM 863	A 8945	05	WAIHAWA	5	21 30	158 03	854		7A		C	WAIALUA SUGAR CO. INC.
WAIHOLE 837	A 8964	01	KOOLAUPOKO	1	21 28	157 53	745		8A		C	WAIHOLE WTR CO LTO
WAIALAE KAHALA 715	9185	02	HONOLULU	2	21 17	157 47	40		7A			SPENCER TINKER
WAIALEE 896.3	9190	01	KOOLAULOA	1	21 41	158 02	33	8A	8A			WAIALEE LIVESK RES FARM
WAIALUA 847	A 9195	05	WAIALUA	5	21 35	158 07	32	7A	7A		C	WAIALUA SUGAR CO. INC.
WAIANAE 798.2	A 9231	04	WAIANAE	4	21 27	158 11	10		7A			BEN MAYES
WAIHAWA 836	A 9261	03	EWA	3	21 28	157 56	800		MO			WAIHOLE WTR CO LTO
WAIKANE 885	A 9340	01	KOOLAUPOKO	1	21 30	157 53	760		WI			WAIHOLE WTR CO LTO
WAIKIKI 717.2	9397	02	HONOLULU	2	21 16	157 49	10	8A	8A			HONOLULU ZOO
WAILUPE VLY SCH 723.6	9500	02	HONOLULU	2	21 18	157 45	180				C	WAILUPE VALLEY SCHOOL
WAIMANALO EXP FARM	9523	01	KOOLAUPOKO	1	21 20	157 43	60	7A	7A			WAIMANALO EXP FARM
WAIMANALO NONOKI 795.2	9534	01	OAHU	1	21 20	157 43	120				C	WAIMANALO EXP FARM
WAIMEA 892	A 9593	05	WAIALUA	5	21 38	158 04	330		7A		C	WAIALUA SUGAR CO INC
WAIPAHU 750	A 9738	03	EWA	3	21 23	158 01	59		8A			WAIHOLE WATER COMPANY
WILHELMINA RISE 721	R 9980	02	HONOLULU	2	21 18	157 47	1100		M10			BOARD OF WTR SUPPLY
ISLAND OF MOLOKAI												
KALAUPAPA 563	A 2896	01	MOLOKAI	1	21 12	156 59	30		8A			KALAUPAPA SETTLEMENT
KAUNAKAKAI 536	3541	01	MOLOKAI	1	21 06	157 01	12		7A			MOLOKAI RANCH LTO
KAUNAKAKAI MAUKA 536.5	3547	01	MOLOKAI	1	21 06	157 01	70				C	MOLOKAI GENERAL HOSP.
KEONELELE PENS 551	A 4394	01	MOLOKAI	1	21 12	157 12	560		VAR			MOLOKAI RANCH. LTO.
KUALAPUU 534	A 4778	01	MOLOKAI	1	21 09	157 02	825		7A		C	OEL MONTE CORPORATION
MAUNALO 511	A 6190	01	MOLOKAI	1	21 08	157 13	1070		9A		C	MOLOKAI RANCH COMPANY
MOLOKAI AP 524	6534	01	MOLOKAI	1	21 09	157 06	450	8A	8A			ALOHA AIRLINES
PUU O HOKU RANCH 542.1	8549	01	MOLOKAI	1	21 09	156 44	700		6A		C	CHARLIE APIA (FOREMAN)
WAIKOLU 540	A 9404	01	MOLOKAI	1	21 08	156 55	3550		WI			MOLOKAI RANCH COMPANY
ISLAND OF LANAI												
KANEPUU 690	A 3130	01	LAHAINA	1	20 52	157 00	1650		WI			U S D A
KAUNALAPAU HARBOR 658	3461	01	LAHAINA	1	20 47	157 00	30		8A		C	OOLE COMPANY
LANAI AIRPORT 656	5275	01	LAHAINA	1	20 48	156 57	1300	8A	8A			HAWAIIAN AIR
LANAI CITY 672	A 5286	01	LAHAINA	1	20 50	156 55	1620		7A		C	OOLE COMPANY
LANAIHALE 684	A 5301	01	LAHAINA	1	20 49	156 53	3370		WI			U S D A
MAHANA 694	A 5704	01	LAHAINA	1	20 52	156 55	1430		MO			U S O A
MALAEUA 676	A 6012	01	LAHAINA	1	20 46	156 55	1150		WI			U S O A
WAIKAEKUA 685	A 9021	01	LAHAINA	1	20 47	156 52	2000		WM			KOELE COMPANY

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AUWAHI 252

A 0175 02 HANA

2 20 37 15

156 20

2060

VAR

ULUPALAKUA RANCH



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								TEMP.	PRECIP.	EVAP.	SPECIAL (SEE NOTES)	
ISLAND OF MAUI												
FIELD 46 474	0541	04	LAHAINA	4	20 59	156 38	1050				C	MAUI LAND-PINEAPPLE CO
HAELAAU 477	A 0790	04	LAHAINA	4	20 57	156 36	2980		MZ			MAUI LAND-PINEAPPLE CO
HALEAKALA 8 E 5 434	A 0995	01	MAKAWAO	1	20 51	156 18	2100		7A			U OF H AGRIC EXP STA
HALEAKALA RANCH 432	A 0999	01	MAKAWAO	1	20 50	156 19	1850		8A			HALEAKALA RANCH CO
HALEAKALA RS 338	1004	02	MAKAWAO	2	20 46	156 15	7030	8A	8A			HALEAKALA NAT PARK
HALIIMAILE 423	A 1075	01	MAKAWAO	1	20 52	156 21	1070		3A			MAUI LAND-PINEAPPLE CO
HAMAKUPOKO 485	1086	01	MAKAWAO	1	20 55	156 21	320		5A			HAWAIIAN COM & SUG CO
HANA 354	A 1122	01	HANA	1	20 45	155 59	120		8A		C	HARRY HASEGAWA
HANA AIRPORT 355	1125	01	HANA	1	20 48	156 01	61	8A	8A			ROYAL HAWAIIAN AIRLINES
HOLUA CABIN 259.5	A 1552	02	MAKAWAO	2	20 45	156 13	6930		MO			HALEAKALA NATL PARK RGS
HONOKOHU 480	A 1882	04	LAHAINA	4	20 58	156 36	870		MO			MAUI LAND-PINEAPPLE CO
HONOKOHU 493	A 1887	04	LAHAINA	4	21 00	156 39	135		6A			MAUI LAND-PINEAPPLE CO
HONOLUA FIELD 49 494	A 1914	04	LAHAINA	4	21 01	156 38	125		MZ			MAUI LAND-PINEAPPLE CO
HONOMANU GULCH 341	A 1935	01	MAKAWAO	1	20 47	156 14	6280		MO			HALEAKALA RANCH CO
IAO NEEDLE 387.2	2208	03	WAILUKU	3	20 53	156 33	1080				C	CLOSED 2/28/78
KAAHAPALI AP 453.1	2307	04	LAHAINA	4	20 56	156 42	8	8A	8A			AMFAC PROPERTIES INC
KAHAKULO MAUKA 482.3	2453	03	WAILUKU	4	20 59	156 33	650				C	EDWARD CHANG
KAHOMA INTAKE 374	A 2552	04	LAHAINA	4	20 54	156 38	2000		WI			PIONEER MILL CO LTD
KAHULUI WSO 398 AP	R 2572	03	WAILUKU	3	20 54	156 26	48	MIO	MIO		C J	NATL WEATHER SERVICE
KAILILI 436	A 2630	01	MAKAWAO	1	20 51	156 16	2520		MO			E MAUI IRR CO LTD
KAILUA 446	2679	01	MAKAWAO	1	20 54	156 13	700	7A	7A			E MAUI IRR CO LTD
KAUOLA INTAKE 375	A 3433	04	LAHAINA	4	20 53	156 38	1585		WI			PIONEER MILL CO LTD
KAUPO RANCH HOUSE 259	3576	02	HANA	2	20 39	156 08	1020				C	KAUPO RANCH
KEAHUA 410	3910	03	MAKAWAO	3	20 52	156 23	480		5A			HAWAIIAN COM & SUG CO
KEANAE 346	A 4091	01	HANA	1	20 50	156 10	980		MO			E MAUI IRR CO LTD
KEAWAKAPU BEACH 260.2	4193	02	MAKAWAO	2	20 42	156 27	20	8A	8A		C	ALLEN L CORELL
KIHEI 311	4489	03	WAILUKU	3	20 47	156 27	90		7A			HAWAIIAN COM & SUG CO
KIPAHULU 258	4634	01	HANA	1	20 39	156 04	260		7A			HANA RANCH-KIPAHULU SEC
KUKUI 380	A 4887	04	LAHAINA	4	20 54	156 35	5788		MZ			MAUI LAND-PINEAPPLE CO
KULA SANATORIUM 267	5006	02	MAKAWAO	2	20 42	156 22	3004	7A	7A			KULA SANATORIUM
LAHAINA 361	5177	04	LAHAINA	4	20 53	156 41	45	7A	7A		C	PIONEER MILL CO LTD
LAUNIPOKO INTAKE 376	A 5404	04	LAHAINA	4	20 51	156 37	1280		WI			PIONEER MILL CO LTD
LAUNIPOKO VILLAGE 372A	5408	04	LAHAINA	4	20 51	156 39	220		7A			PIONEER MILL CO LTD
LUPI UPPER 442	A 5665	01	MAKAWAO	1	20 53	156 15	1240		MO			E MAUI IRR CO LTD
MAHINAHINA 466	A 5715	04	LAHAINA	4	20 57	156 40	715		7A			PIONEER MILL CO LTD
MOKUPEA 475	A 6521	04	LAHAINA	4	20 59	156 37	1290		MZ			MAUI LAND-PINEAPPLE CO
NAKALELE FIELD 60 497	A 6645	04	LAHAINA	4	21 02	156 36	340		VAR			MAUI LAND-PINEAPPLE CO
OLINDA 332	A 7040	01	MAKAWAO	1	20 48	156 17	4127		VAR			EAST MAUI IRRIGATION CO
OLOWALU 296.1	7059	04	LAHAINA	4	20 49	156 37	20		7A			PIONEER MILL CO LTD
PAAKAA 350	7194	01	HANA	1	20 49	156 07	1260		VAR		C	E MAUI IRR CO LTD
PAIA 406	7566	01	WAILUKU	1	20 55	156 23	170		6A			HAWAIIAN COM & SUG CO
PANILEIHULU 259.2	A 7674	02	HANA	2	20 41	156 08	3570		MO			KAUPO RANCH CO.
PEAHI 488.6	7952	01	MAUI	1	20 54	156 17	830		WI		C	BERNARD RUPLINGER
POHAKA BRIDGE 307.2	A 8060	03	WAILUKU	3	20 49	156 31	167		6A			WAILUKU SUGAR CO
POLIPOLI SPRINGS 267.2A	8070	02	MAKAWAO	2	20 41	156 20	6150		VAR			STATE DIV OF FORESTRY
PUDOHOKMOA 2 343	A 8336	01	HANA	1	20 50	156 13	2980		MO			E MAUI IRR CO LTD
PUUNENE 396	8543	03	WAILUKU	3	20 53	156 27	60		7A			HAWAIIAN COM & SUG CO
PUU PAI 352	A 8553	01	HANA	1	20 46	156 03	2160				S	EAST MAUI IRRIGATION CO
SPRECKELSVILLE 400.2	8688	03	WAILUKU	3	20 54	156 25	85		8A			HAWAIIAN COM & SUG CO
TWIN GATES 261.3	A 8742	03	MAKAWAO	3	20 46	156 23	1310		VAR			KRONOLU RANCH
UH AGRI RES CNTR 324.5	8743	02	MAUI	2	20 46	156 20	3050				C	UH MAUI AGRI RESCH CNTR
UKULELE 333	A 8744	01	MAKAWAO	1	20 48	156 15	5230		MO			HALEAKALA RANCH CO
UKUMEHAME 301	A 8750	04	LAHAINA	4	20 48	156 35	75		7A			PIONEER MILL CO LTD
ULUPALAKUA RANCH 250	8760	02	MAKAWAO	2	20 39	156 24	1900		8A		C	ULUPALAKUA RCH CO LTD
WAIKULI 364	A 8955	04	LAHAINA	4	20 54	156 40	580		8A			PIONEER MILL CO LTD
WAIHEU CAMP 484	A 9275	03	WAILUKU	3	20 55	156 31	320		6A			WAILUKU SUGAR CO
WAIHEE VALLEY 482	9315	04	WAILUKU	4	20 57	156 32	300		6A			WAILUKU SUGAR CO
WAIKAMOI 449	A 9332	01	HANA	1	20 52	156 12	1200		MO			E MAUI IRR CO LTD
WAIKAMOI DAM 336	A 9335	01	MAKAWAO	1	20 49	156 14	4320		VAR		C	EAST MAUI IRRIGATION CO
WAIKAPU 390	A 9376	03	WAILUKU	3	20 51	156 31	370		6A			WAILUKU SUGAR CO
WAILUA IKI 348	A 9460	01	HANA	1	20 48	156 09	2630				S	EAST MAUI IRRIGATION CO
WAILUKU 386	A 9484	03	WAILUKU	3	20 54	156 30	180	7A	7A			WAILUKU SUGAR COMPANY
WAIOPAI RANCH 256	A 9765	02	HANA	2	20 38	156 12	220		OC			HALEAKALA RANCH CO
ISLAND OF HAWAII												
AHUA UMI 75	A 0040	05	N KONA	5	19 38	155 47	5220		MO			W.H. GREENWELL RANCH
CITY OF REFUGE 27.4	0344	04	S KONA	4	19 25	155 55	15		9A			NAT HISTORICAL PARK

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								TEMP.	PRECIP.	EVAP.	SPECIAL (SEE NOTES)	
ISLAND OF HAWAII												
HAINA 214	0840	01	HAMAKUA	1	20 06	155 28	461		8A			HONOKAA SUGAR CO
HAKALAU 142	0905	02	S HILO	2	19 54	155 08	105		7A			MAUNA KEA SUGAR CO
HALEMAUMAU 52	A 1033	03	KAU	3	19 24	155 17	3648		MO			HAWAII NAT PARK
HALEPOHAKU 111	A 1065	02	HAMAKUA	2	19 46	155 28	9220		3P			MAUNA KEA OBSERVATORY
HA'S FARM 85.3	1270	02	HAWAII	2	19 40	155 06	580		8A			CLOSED 2/28/78
HAWAII VOLCNS NP HQ 54	1303	02	KAU	2	19 26	155 16	3971	8A	8A			HA VOLCANOES NAT PK HOS
HAWI 168	A 1339	01	N KOHALA	1	20 14	155 50	580		6A			K L 80ND
HILO COUNTRY CLUB 86.6	1487	02	HAWAII	2	19 41	155 10	1600		7A			REX WILLS II
HILO WSO AP 87	R 1492	02	S HILO	2	19 43	155 04	36	M10	M10			NATL WEATHER SERVICE
HOLUALOA 70	A 1557	04	N KONA	4	19 38	155 55	3220		MO			STATE DIV OF FORESTRY
HOLUALOA BEACH 68	A 1562	04	N KONA	4	19 37	155 59	14		7A			CAPT COOK CATTLE CO
HONAUNAU 27	1665	04	S KONA	4	19 27	155 53	1089		7A			SHIGETO L TANAKA
HONOHINA 137	1701	02	N HILO	2	19 56	155 09	300		7A			MAUNA KEA SUGAR CO
HONOMU MAUKA 138	1960	02	S HILO	2	19 51	155 09	1100		7A			MAUNA KEA SUGAR CO
HONUWALA 71	A 2047	04	N KONA	4	19 40	155 53	6250		MO			STATE DIV OF FORESTRY
HUALALAI 72	A 2151	04	N KONA	4	19 42	155 52	8190		MO			STATE DIV OF FORESTRY
HUEHUE 92.1	A 2156	04	N KONA	4	19 45	155 59	1960		6A			HUEHUE RANCH
KAAALA IKI 12	A 2249	03	KAU	3	19 08	155 34	1340		WI			KAU SUGAR COMPANY, INC
KAAWALOA 29	A 2327	04	SOUTH KONA	4	19 30	155 55	1340		8A			CAPT COOK INVESTMENT CO
KAHIWAI MAUKA 3.8	2512	03	KAU	3	19 08	155 46	4120					RUSSELL P. SMITH
KAHUA RCH HQTRS 176.3	2600	01	HAWAII	1	20 08	155 48	3240					KAHUA RANCH COMPANY
KAINALIU 73.2	2751	04	N KONA	4	19 32	155 56	1500	7A	7A			KONA EXPERIMENT STA
KALAOA 69.22	2887	04	HAWAII	4	19 44	155 59	2000		8A			FLOYD W MC COY
KALAPANA 1 67.8	2894	02	S HILO	2	19 20	155 02	10		VAR			HAWAII VOLCANOES NAT PK
KAMAHA 2 5	A 3048	03	KAU	3	19 02	155 40	1375		WI			PARKER RCH-KAPAPALA OIV
KAMUELA 192.2	3077	01	S KOHALA	1	20 01	155 40	2670	6A	6A			PARKER RANCH
KAPAPALA RANCH 36	A 3300	03	KAU	3	19 17	155 27	2140		6A			PARKER RCH-KAPAPALA OIV
KAPOHO BEACH 93.11	3368	02	HAWAII	1	19 30	154 49	10	8A	8A			H E MC NICHOLS
KAPOHO LANDING 93.5	A 3369	02	PUNA	2	19 30	154 52	290		VAR			DEPT OF PUBLIC WORKS
KAWAINUI LOWER 193	A 3770	01	HAMAKUA	1	20 05	155 39	1080		WI			HONOKAA SUGAR CO
KEAAU 92	3872	02	PUNA	2	19 38	155 02	285	8A	8A			PUNA SUGAR CO
KEAIIWA CAMP 22.1	3925	03	KAU	3	19 14	155 29	1700					KAU SUGAR COMPANY, INC
KEALAKEUA 26.2	3977	04	S KONA	4	19 30	155 55	1450					HERBERT KANE
KEANAKOLU CAMP 124.2	4098	02	HAMAKUA	2	19 55	155 21	5280					STATE DIV OF FORESTRY
KIOLAKAA A & F 6	A 4625	03	KAU	3	19 04	155 38	1925		MO			STATE DIV OF FORESTRY
KIPA 89.2	A 4632	02	S HILO	2	19 44	155 09	1490		WI			MAUNA KEA SUGAR CO.
KOHALA MISSION 175.1	4680	01	N KOHALA	1	20 14	155 48	537	7A	7A			K. LYMAN BOND
KOIWE LOWER 196	A 4685	01	HAMAKUA	1	20 05	155 38	720		WI			HONOKAA SUGAR CO
KONA (KAILUA) 68.3	A 4764	04	N KONA	4	19 39	156 00	30	8A	8A			CHEVRON USA
KONA VILLAGE 93.8	4765	04	N KONA	4	19 50	155 59	20		8A			KONA VILLAGE RESORT HTL
KUKAIAU 222	4815	01	HAMAKUA	1	20 02	155 21	840		6A			LAUPAHOEHOE SUGAR CO
KUKUIHALE HIC 199	4928	01	HAMAKUA	1	20 07	155 35	980		6A			HONOKAA SUGAR CO
KUKUIHALE MILL 206	A 4938	01	HAMAKUA	1	20 08	155 34	300		6A			HONOKAA SUGAR CO
KULANI CAMP 79	5011	02	S HILO	2	19 33	155 18	5170	8A	8A			ST DEPT OF SOCIAL SER
KULANI MAUKA 76	A 5018	05	N HILO	5	19 35	155 27	8300		WI			MAUNA LOA OBS.
KULANI SCHOOL SITE 78	A 5021	02	S HILO	2	19 35	155 20	5735		WI			ST DEPT OF SOCIAL SER
LALAMLO FLO OFF 191.1	5260	01	S KOHALA	1	20 01	155 41	2615					STATE DEPT OF L&N RES
LANIHAU 68.2	5330	04	N KONA	4	19 40	155 58	1530		7A			KONA EXPERIMENT STATION
LAVA TREE PARK 66.1	5460	02	PUNA	2	19 29	154 54	650					STATE DIV OF PARKS
MAKAHALAU 103	5761	02	HAWAII	1	19 59	155 33	3820		6A			PARKER RANCH
MANUKA 2	A 6134	03	KAU	3	19 07	155 50	1760		WI			STATE DIVISION OF PARKS
MAUNA KEA OBS 111.2	6183	02	HAWAII	2	19 49	155 28	13770		7P			MAUNA KEA OBSERVATORY
MAUNA LOA SLOPE OBS	6198	05	HAMAKUA	5	19 32	155 35	11150	M10	M10			MAUNA LOA OBSERVATORY
MIDDLE HOLUALOA 68.1	A 6268	04	N KONA	4	19 37	155 58	500		7A			CAPT COOK CATTLE CO
MIDDLE PEN 147.1	A 6270	01	N KOHALA	1	20 06	155 50	1380		VAR			KAHUA RANCH
MOAULA 18	A 6407	03	KAU	3	19 11	155 30	600		WI			PARKER RCH-KAPAPALA OIV
MOUNTAIN VIEW 91	6552	02	PUNA	2	19 33	155 07	1530	6A	6A			PUNA SUGAR CO
NAALEHU 14	A 6588	03	KAU	3	19 04	155 35	800	8A	8A			KAU SUGAR COMPANY
NAPOOPOO 28	A 6697	04	S KONA	4	19 28	155 55	395		7A			KONA EXPERIMENT STA
OOKALA 223	7131	02	N HILO	2	20 01	155 17	430	7A	7A			LAUPAHOEHOE SUGAR CO
OPIIHALE 2 24.1	7166	04	S KONA	4	19 16	155 53	1270	7A	7A			MRS LORMA TRUMAN
ORCHID LAND EST 91.5	A 7185	02	PUNA	2	19 34	155 00	445		VAR			BOARD OF WATER SUPPLY
PAAUHAU 217	7204	01	HAMAKUA	1	20 05	155 26	415		8A			HONOKAA SUGAR COMPANY
PAUUILO 221	7312	01	HAMAKUA	1	20 03	155 22	800		7A			LAUPAHOEHOE SUGAR CO
PAHALA 21	A 7421	03	KAU	3	19 12	155 29	870	8A	6A			KAU SUGAR COMPANY, INC
PAHOA 65	7457	02	PUNA	2	19 30	154 57	670		6A			PUNA SUGAR COMPANY
PAKAO 37	A 7643	03	KAU	3	19 22	155 28	5000		MO			PARKER RCH-KAPAPALA OIV

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								TEMP.	PRECIP.	EVAP.	SPECIAL (SEE NOTES)	
ISLAND OF HAWAII												
PAPA'IKOU 144.1	7711	02	S HILO	2	19 47	155 06	260		7A			MAUNA KEA SUGAR CO
PAPA'IKOU MAUKA 140.1	7721	02	S HILO	2	19 47	155 08	1270		7A			MAUNA KEA SUGAR CO
PII'HONUA 89	8051	02	S HILO	2	19 44	155 10	1730		MO			STATE DIV OF FORESTRY
POHAKULOA 107	8063	02	HAMAKUA	2	19 45	155 32	6511		WI		C	STATE DIVISION OF PARKS
PUUKOHOLA HEIAU 98.1	8422	05	HAWAII	5	20 02	155 50	140	8A	8A			SUPT PUU HEIAU-NHS
PUU LEHUA 73	8460	04	N KONA	4	19 34	155 49	4880		MO			W.H. GREENWELL RANCH
PUU WAAWAA 94.1	8555	05	N KONA	5	19 47	155 51	2520		7A		C	PUU WAAWAA RANCH CO
SADDLE ROAD 1 84	8590	02	S HILO	2	19 42	155 12	2340		WM			BOARD OF WTR SUPPLY
SOUTH KONA 2.31	8650	03	HAWAII	3	19 06	155 45	2650	8A	8A			MRS CAROLYN CARLSON
SOUTH POINT CORRAL 3	8675	03	KAU	3	18 57	155 41	500		WI			PARKER RCH-KAPAPALA DIV
UPOLU POINT USCG 159.2	8830	01	N KOHALA	1	20 15	155 53	61	8A	2P			U S COAST GUARD
WAI'AKEA SCO 88.2	9025	02	S HILO	2	19 40	155 08	1050		7A			SHINICHI KANESHIRO
WAIKALOA-8015 CAS 95.8	9142	04	HAWAII	5	19 56	155 48	900		8A			BOISE CASCADES WA CONST
CLOSED STATIONS												
ISLAND OF OAHU												
KAA'LAKEI 724.6	2269	02	HONOLULU	2	21 18	157 43	10				C	CLOSED 11/30/72
UPPER WAHIAWA 874.3	8838	05	OAHU	5	21 31	158 01	1115		6A			CLOSED 12/31/77
ISLAND OF MAUI												
IAO NEEDLE 387.2	2208	03	WAILUKU	3	20 53	156 33	1080				C	CLOSED 2/28/78
ISLAND OF HAWAII												
HA'S FARM 85.3	1270	02	HAWAII	2	19 40	155 06	580		8A			CLOSED 2/28/78

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STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES				OBSERVER
								TEMP.	PRECIP.	EVAP.	SPECIAL (SEE NOTES)	
PACIFIC												
EAST OF 180TH MERIDIAN												
ATU'U	4060	03	TUTUILA		14 16S	170 41W	265		4P			MARIST BROTHERS
CANTON ISLAND	4101	02	PHOENIX IS		2 46N	171 43W	8	9A	9A			ITT/FEDERAL ELEC CORP
FAGA ALU RESERVOIR	4135	03	AMER SAMOA		14 18S	170 42W	820		8A			CLOSED 12/31/77
FALEASAO VILLAGE	4248	03	TA'U'MAN		14 14S	169 31W	16		8A			SOLOMULI MALU'IA
JOHNSTON IS WSD AP	R 4320	01	LINE ISLANDS		16 44N	169 31W	10	M10	M10	5P	J	NATL WEATHER SERVICE
LEONE	4397	03	TUTUILA		14 21S	170 47W	20	6P	6P			ST THERESA SCHOOL
FRENCH FRIGATE SHOALS	4401	07			23 52N	166 17W	6	8P	8A			U S COAST GUARD
MIDWAY SAND ISLAND	4490	07			28 13N	177 21W	10	M10	M10			U S NAVY
PAGO PAGO WSD AP	R 4690	03	AMER SAMOA		14 20S	170 43W	12	M10	M10		J	NATL WEATHER SERVICE
WESTERN PACIFIC ISL. NORTH OF 12 N												
ANDERSEN AFB GUAM	\$3 4025	03	MARIANNA IS		13 35N	144 55E	624	M10	M10			AIR WEATHER SERVICE
CLARK AFB LUZON	\$3 4100	06	PHILIPPINE I		15 11N	120 33E	475	M10	M10			U S AIR FORCE
GUAM NAS	4226	03	MARIANNA IS		13 29N	144 48E	254	M10	M10			U S NAVY
GUAM WSMO	R 4229	03	MARIANNA IS		13 33N	144 50E	361	10A	10A	6P	J	NATL WEATHER SERVICE
MANGILAO	4468	03	GUAM		13 27N	144 49E	60		7A			GUAM AGRICULTURAL STA
ROTA	4800	03	MARIANNA IS		14 08N	145 09E	47		8A			DIST ADMINISTRATOR
SAIPAN LORAN	4860	03	MARIANNA IS		15 08N	145 42E	9	10A	10A			U S C G LORAN STATION
WAKE ISLAND WSD AP	R 4901	01	WAKE ISLAND		19 17N	166 39E	12	M10	M10		J	NATL WEATHER SERVICE
CAROLINE AND MARSHALL ISLANDS												
ANGUAR	4030	02	CAROLINE IS		6 55N	134 09E	15		8A			USCG LORAN STATION
ENEWETAK	4165	01	MARSHALL IS		11 21N	162 21E	10	6P	6P			MID-PACIFIC MARINE LAB
FALALOP I ULITHI ATOLL	4185	02	CAROLINE IS	2	10 02N	139 48E	6	M10	M10			RAPAHUEL B LINGESON
KAPINGAMARANGI ATOLL	4325	01	PONAPE		1 05N	154 48E	10	M10	M10			ERSIN HADUET
KOROR WSD	R 4351	02	CAROLINE IS		7 20N	134 29E	94	M10	M10		J	NATL WEATHER SERVICE
KWAJALEIN MISSILE RGN	R 4375	01	MARSHALL IS		8 44N	167 44E	7	12M	12M		J	KMR WEATHER SERVICE
LELE I KOSRAE	4395	02	KOSRAE		5 20N	163 02E	7	M10	M10			JULIAN E ROBERT
MAJURO WSD AP	R 4460	02	MARSHALL IS		7 05N	171 23E	10	M10	M10		J	NATL WEATHER SERVICE
METALANIM	4482	02	PONAPE		6 51N	158 19E	30	6P	6P			REV E. A. SOUCIE
MOKIL ATOLL	4490	02	PONAPE DIST.		6 41N	159 47E	27		5P			ESHIAM BEN
NGASANG.BABELTHUAP	4580	01	PALAU ISLAND		7 38N	134 39E	10		8A			BETHANIA SEMINARY
PONAPE WSD	R 4751	02	CAROLINE IS		6 58N	158 13E	123	M10	M10		J	NATL WEATHER SERVICE
SATAWAN ATOLL	4814	02	CAROLINE IS		5 20N	153 44E	9	M10	M10			ANTER EKO
TRUK. MOEN I. WSD AP	R 4851	02	CAROLINE IS		7 28N	151 51E	5	M10	M10		J	NATL WEATHER SERVICE
WOLEAI ATOLL	4911	01	CAROLINE IS		7 23N	143 55E	7	M10	M10			HASUGULIMAR/HALEYEMAI
YAP WSD AP	R 4951	02	CAROLINE IS		9 29N	138 05E	44	M10	M10		J	NATL WEATHER SERVICE
CLOSED STATIONS EAST OF 180TH MERIDIAN												
FAGA ALU RESERVOIR	4135	03	AMER SAMOA		14 18S	170 42W	820		8A			CLOSED 12/31/77

SEE REFERENCE NOTES FOLLOWING STATION INDEX



Additional information regarding the climates of Hawaii and the Pacific Ocean Area may be obtained by writing to the National Climatic Center, Federal Building, Asheville, N.C. 28801, or to any National Weather Service Office near you. Additional precipitation data for Hawaii are contained in "HOURLY PRECIPITATION DATA HAWAII."

**DIMENSIONAL UNITS:** Unless otherwise indicated, dimensional units used in this bulletin are: Temperature in °F., precipitation and evaporation in inches, and wind movement in miles. In "Supplemental Data" table directions entered in figures are tens of degrees. Resultant wind is the vector sum of wind directions and speeds divided by the number of observations.

**OBSERVATION TIME:** Data in the "Monthly Extremes," "Daily Precipitation" table, "Daily Temperature" table, and "Evaporation and Wind" table are for the 24 hours ending at time of observation unless indicated otherwise by reference letters in the Station Index. The Station Index shows observation time in local standard time.

**EVAPORATION** is measured in the standard Weather Service-type pan of 4-foot diameter unless otherwise noted below in the Evaporation and Wind table. Max and Min values in the Evaporation and Wind table are extremes of temperature of water in pan as recorded during 24 hours ending at time of observation. Wind is the total wind movement in miles over the evaporation pan as determined by a continuous anemometer recorder located 6-8 inches above the pan.

**NORMALS** for all stations are climatological standard normals based on the period 1941-1970.

**STATION NAMES:** Hawaii state key numbers are included following station names in the several tables.

**LATE REPORTS AND CORRECTIONS** will be carried only in the June and December issues of this bulletin.

**INTERPOLATED VALUES** for monthly precipitation totals may be found in the annual issue of this publication.

**IN THE DATA TABLES THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING:**

- No record in the "Supplemental Data" table, "Daily Precipitation" table, "Evaporation and Wind" table, and the Station Index.
- No record in the "Monthly Summarized Data" table and the "Daily Temperature" table is indicated by no entry.
- And also on an earlier date or dates.
- .. Highest observed one minute windspeed. This station is not equipped with an instrument to measure fastest mile data.
- \* Amount included in following measurement, time distribution unknown.
- † Extreme occurred at station with incomplete data which may have been exceeded.
- A The letter "A" shown following station name in "Monthly Summarized Data" table, "Daily Precipitation" table, and "Station Index," indicates amount carried in the "Total" column is for the period from last measurement of a preceding month through the last measurement of the current month. See "Daily Precipitation" table of this and previous bulletins for dates of measurement. Where gages are read only once monthly, measurements made on the first of a month are credited to the last day of the preceding month.
- B Adjusted to a full month.
- M One or more days of record missing; if average value is entered, less than 10 days record is missing. See "Daily Temperature" table for detailed daily record.
- R Amounts from recording gage.
- T Trace, an amount too small to measure.
- V Includes total for previous month.

**IN THE STATION INDEX THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING:**

- AR Observation made after rain.
- C In Special Column of Station Index indicates Recording Rain Gage Station. Hourly Precipitation values are processed for special purposes, and are published later in the "Hourly Precipitation Data" bulletin. If daily amounts are published in "Monthly Summarized Data" bulletin they are from a separate non-recording gage, except where indicated by reference 'R'. Such amounts may differ from amounts published from the recording gage in the "Hourly Precipitation Data" bulletin.
- J "Supplemental Data" table.
- MO Gage read once monthly; usually on the last day.
- OC Gage readings at periods varying from a few weeks to several months.
- S Storage precipitation station. Precipitation measurements, made at irregular intervals, are published in the annual issue of this publication, beginning with the 1977 data. Prior data are found in the "Storage-Gage Precipitation Data" Bulletin, which was discontinued with the 1976 issue.
- SS Observation time is near sunset.
- VAR Observation time is variable.
- WI Gage read weekly or irregularly only.
- WM Gage read weekly and last day of month.
- # Thermometers are generally exposed in a shelter located a few feet above sod-covered ground; however, this reference indicates that the thermometers are exposed in a shelter located on the roof of a building.
- 53 Maximum and minimum temperatures are the highest and lowest hourly readings for each day.
- ‡ DRAINAGE CODE: KAUAI: 1-NORTHERN 2-SOUTHEASTERN 3-SOUTHWESTERN OAHU: 1-WINDWARD KOOLAU 2-HONOLULU 3-SOUTH CENTRAL 4-WESTERN 5-NORTH CENTRAL MOLOKAI: 1-(NO INTRA-ISLAND DIVISIONS) LANAI: 1-(NO INTRA-ISLAND DIVISIONS) MAUI: 1-NORTHEASTERN 2-SOUTHERN 3-CENTRAL 4-WESTERN HAWAII: 1-NORTHERN 2-EASTERN 3-SOUTHERN 4-WESTERN 5-CENTRAL

Stations appearing in the tables with no data were either missing or received too late to be included in this issue.

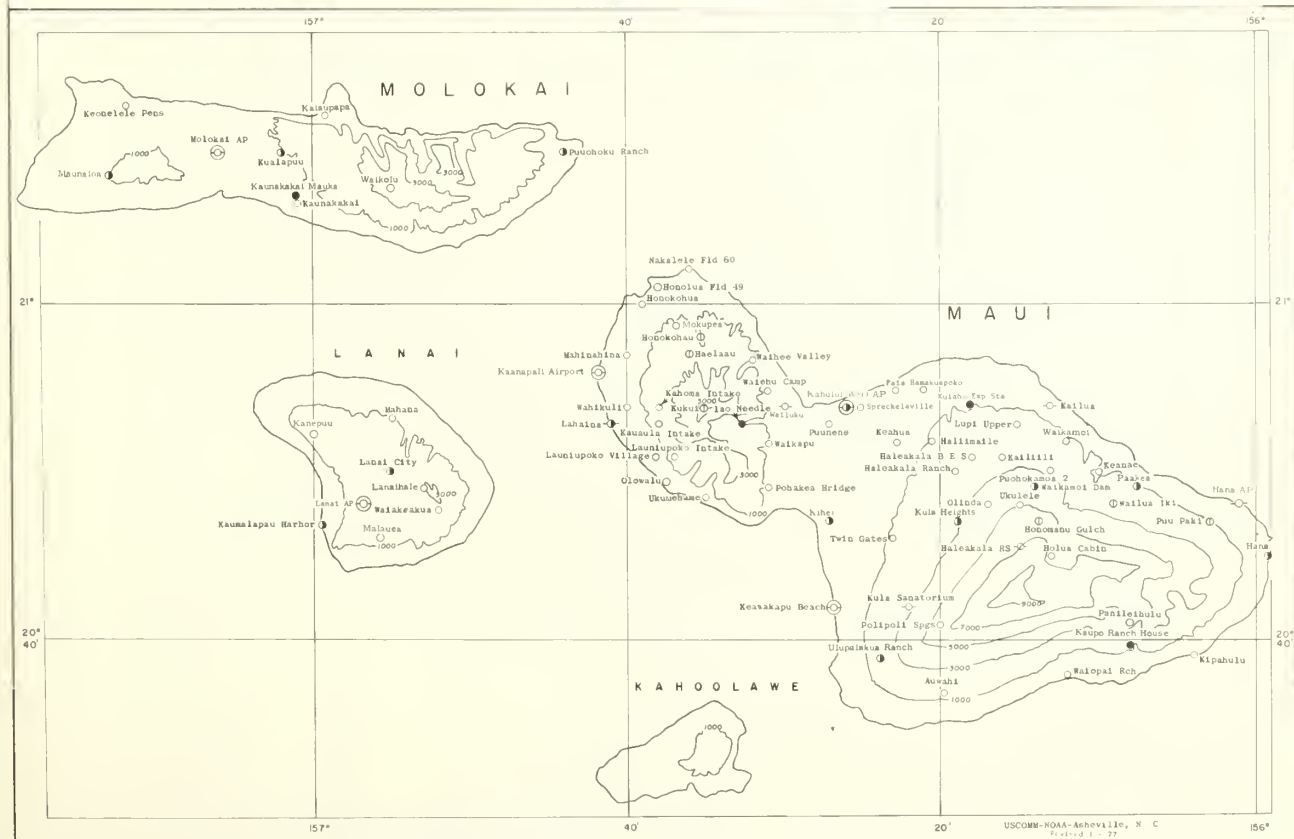
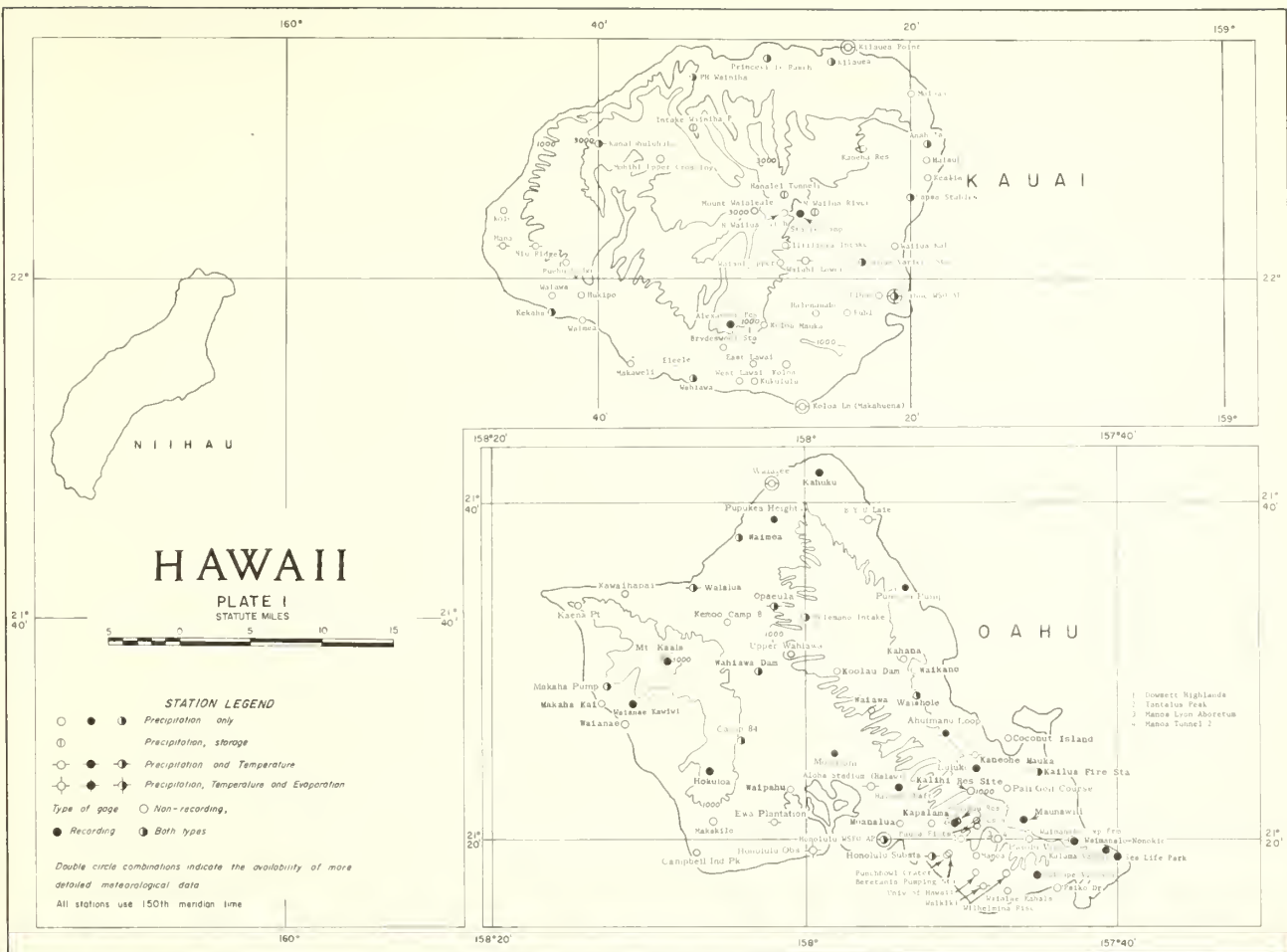
The Pacific includes stations in the Trust Territory of the Pacific Islands, Territory of Guam, American Samoa, and other scattered islands and atolls.

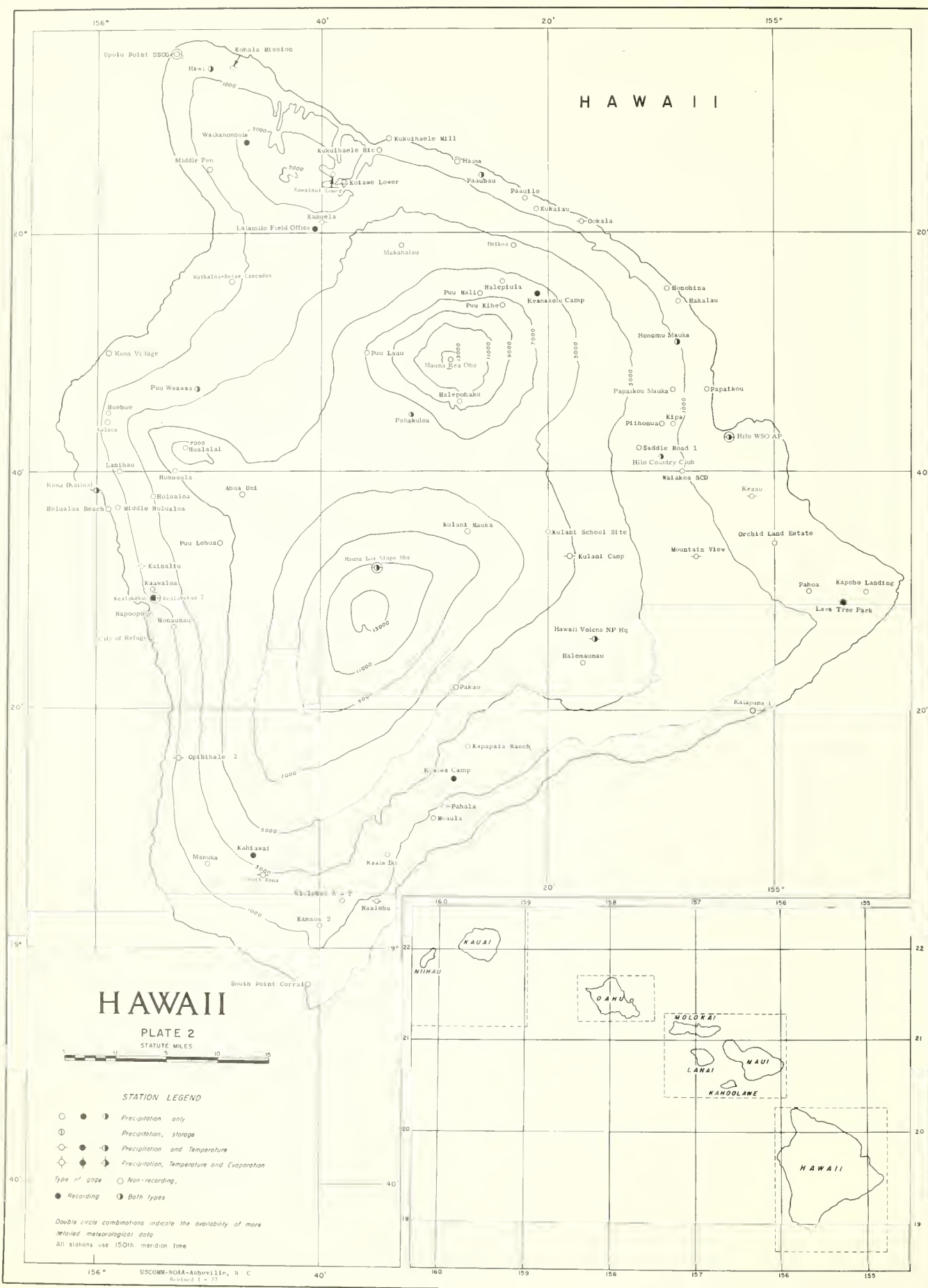
General weather conditions in the U.S. for each month are described in the CLIMATOLOGICAL DATA NATIONAL SUMMARY and STORM DATA.

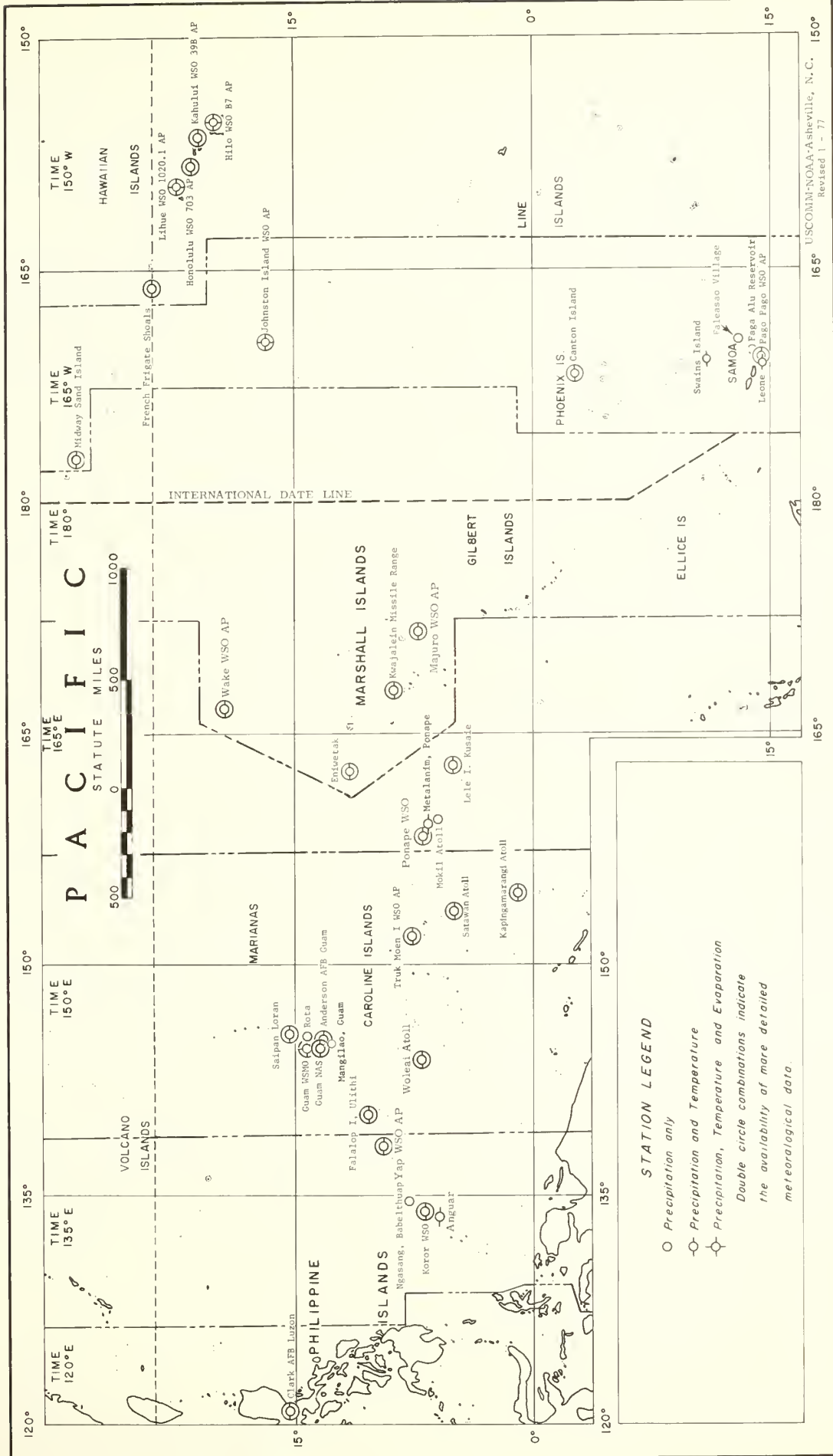
Information concerning the history of changes in locations, elevations, exposure, etc., of substations through 1957 may be found in the publication "Substation History" for this State, price 40 cents. Similar information for regular National Weather Service Offices may be found in the latest annual issue of Local Climatological Data, price 20 cents. These publications may be obtained from the National Climatic Center at the address shown above.

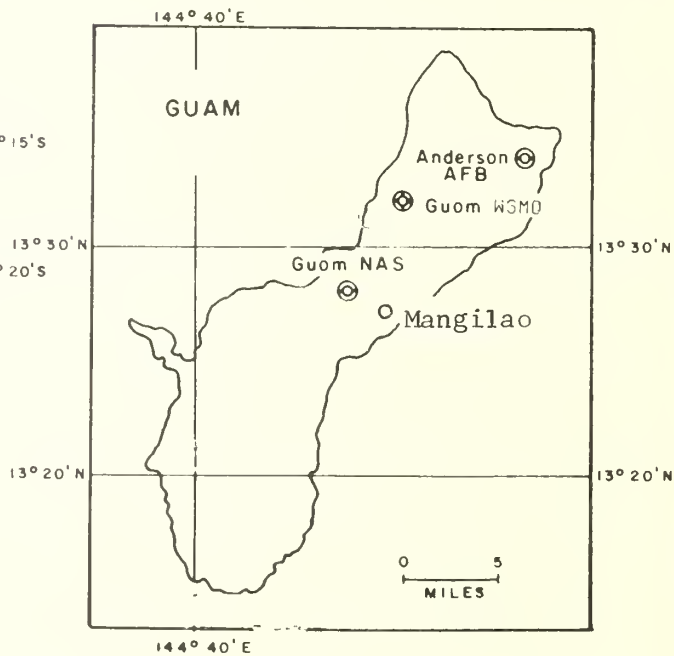
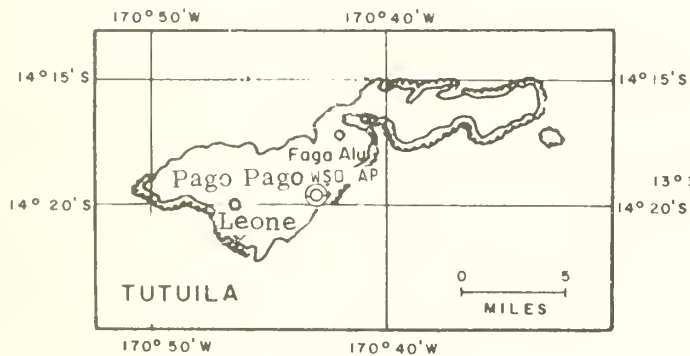
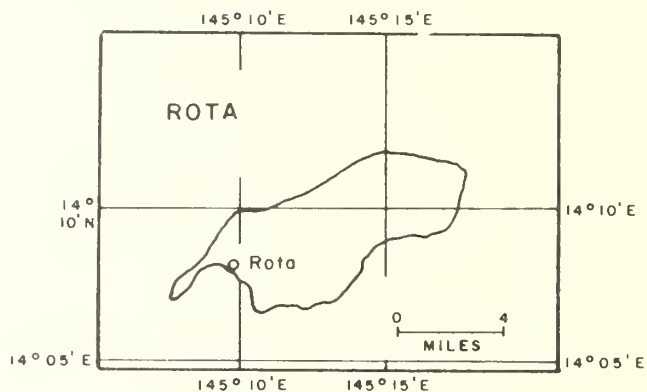
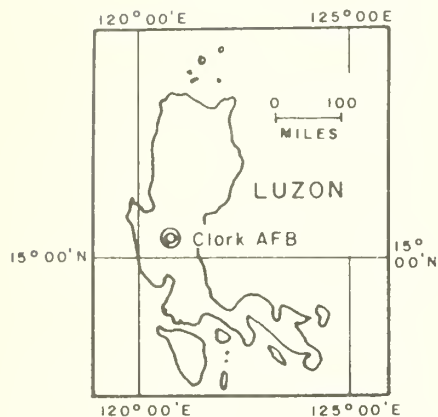
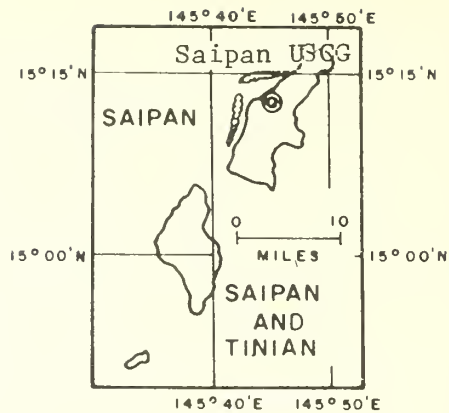
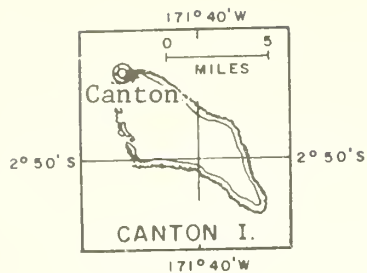
Subscription Price: \$5.10 a year for each section including annual summary; \$5.55 additional for foreign mailing; 40¢ single copy; 30¢ annual summary. Make checks payable to Department of Commerce, NOAA; send payments and orders to: National Climatic Center, Federal Building, Asheville, N. C. 28801. Attn: Publications.

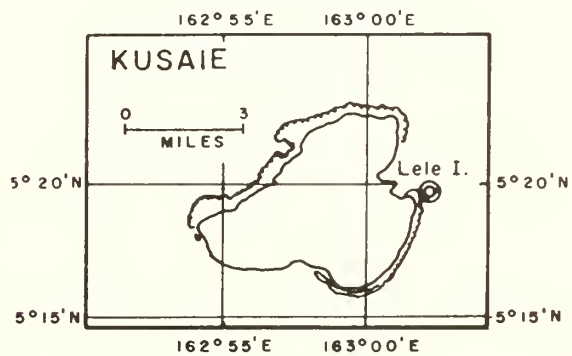
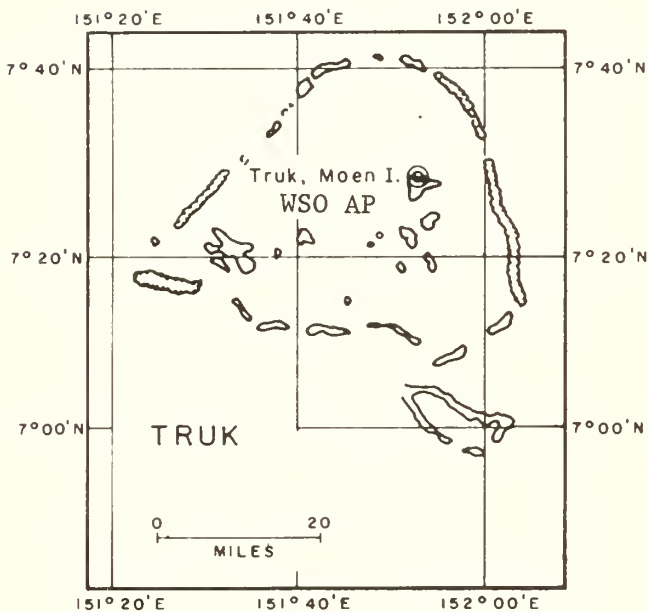
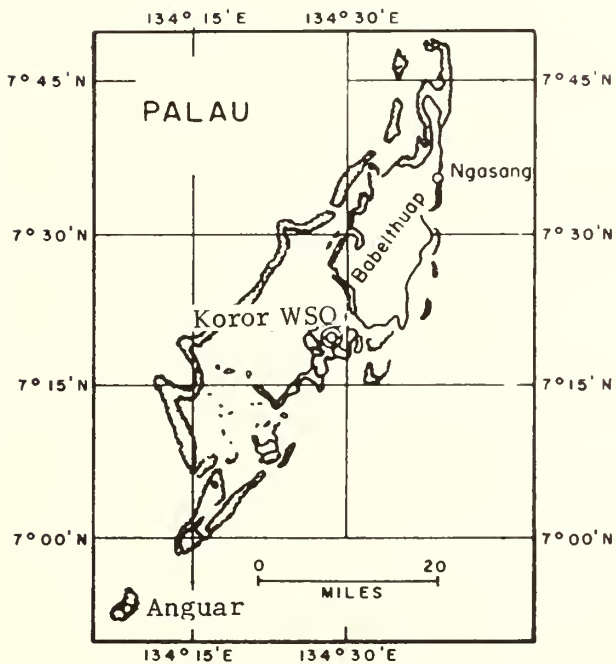
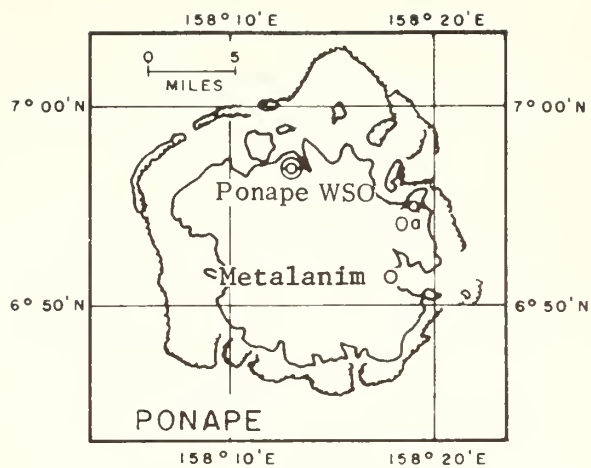
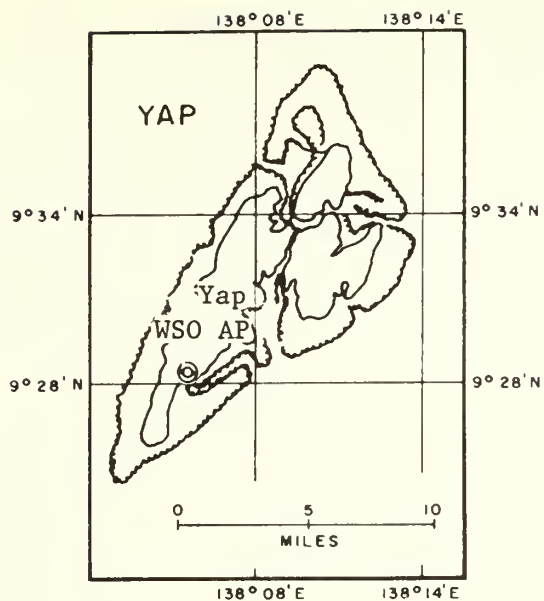






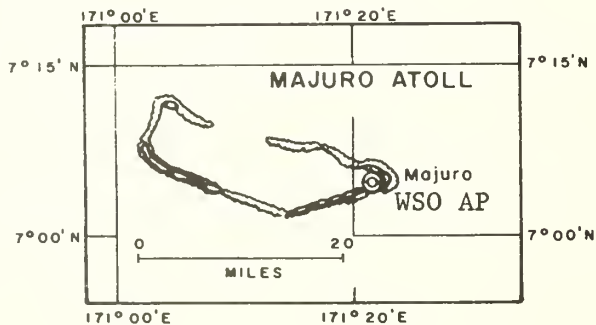
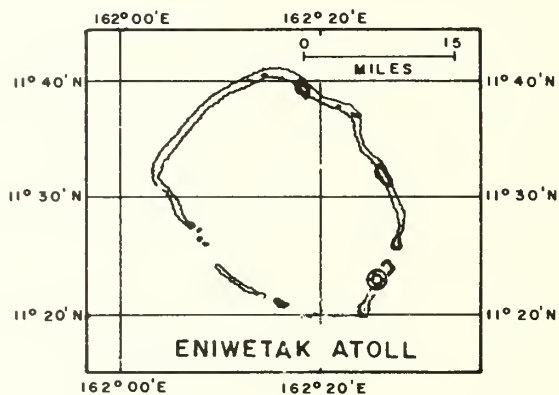
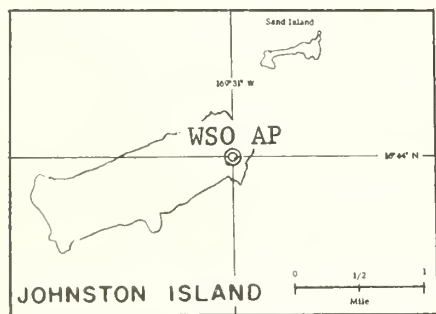
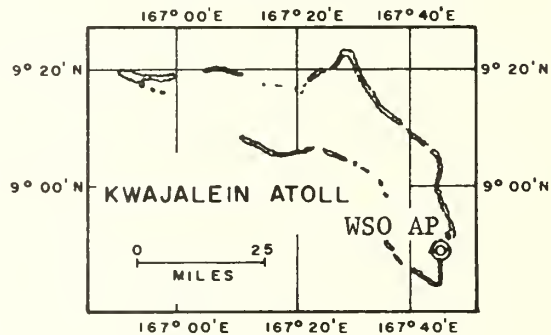
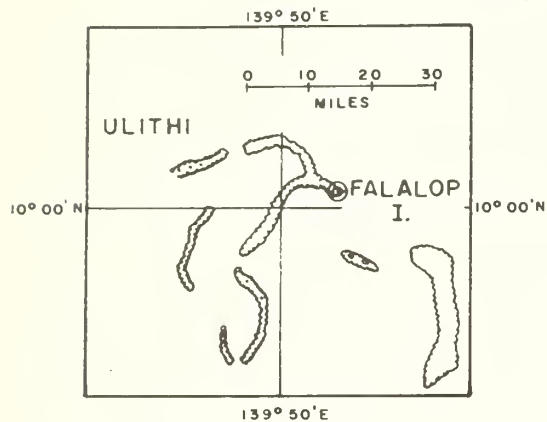
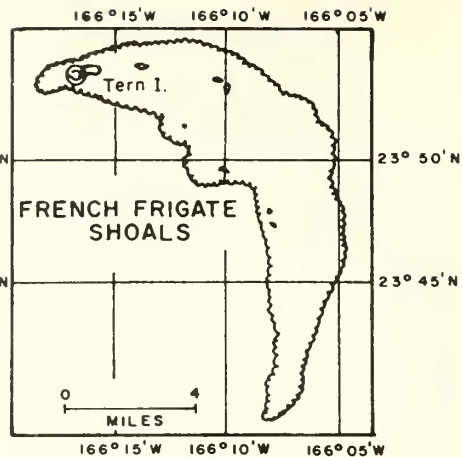
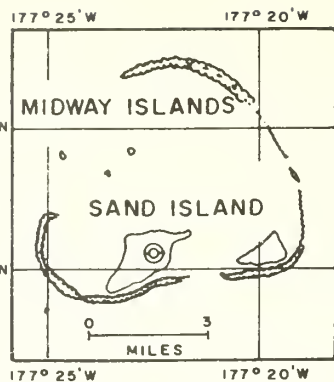
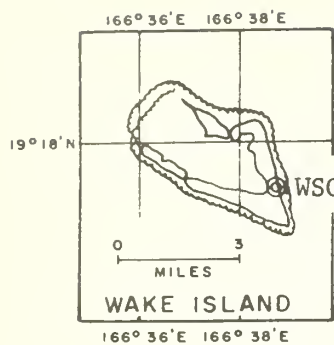






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**THIRD CLASS**

# Climatological Data



## HAWAII AND PACIFIC

### TEMPERATURE AND PRECIPITATION EXTREMES

#### HAWAIIAN STATIONS ONLY

HIGHEST TEMPERATURE:	PUUKOHOLA HEIAU 98.1	HAWAII	92	DATE	28
LOWEST TEMPERATURE:	MAUNA LOA SLOPE 085	HAWAII	29	DATE	08
GREATEST TOTAL PRECIPITATION:	KUKUI 380	MAUI	34.00		
LEAST TOTAL PRECIPITATION:	POHAKULOA 107	HAWAII	.00		
GREATEST 1 DAY PRECIPITATION:	KAPOHO BEACH 93.11	HAWAII	4.20	DATE	18

### SUPPLEMENTAL DATA

	WIND (SPEED - M.P.H.)						RELATIVE HUMIDITY AVERAGES- PERCENT				NUMBER OF DAYS WITH PRECIPITATION								PERCENT OF POSSIBLE SUNSHINE	AVERAGE (TENTHS) SKY COVER	SUMMIT TO SUNSET
	RESULTANT DIRECTION	RESULTANT SPEED	AVERAGE	FASTEST MILE	DIRECTION OF FASTEST MILE	DATE OF FASTEST MILE	STANDARD OF TIME				TRACE	.01-.09	.10-.49	.50-.99	1.00-1.99	2.00 AND OVER	TOTAL				
							GREENWICH CIVIL														
							12	18	00	06											
GUAM W50	-	-	-	28	E	17	-	75	71	89	3	13	8	1	0	0	25	58	7.7		
HILO W50 87 AP	9	1.0	6.5	24	E	19	89	80	69	82	7	9	8	3	2	0	29	50	6.9		
HONOLULU W50 703 AP	7	9.0	12.0	31	NE	04	72	66	54	67	8	4	4	0	1	0	17	65	6.6		
JOHNSTON W50 AP	7	17.2	17.9	34	E	07	78	78	70	77	6	14	1	0	0	0	21	85	5.9		
KAHULUI W50 398 AP	5	9.5	11.9	32	E	03+	-	72	55	64	11	5	1	0	0	0	17	69	5.4		
KOROR W50	7	5.8	8.3	26	NE	04	87	-	80	75	4	6	8	4	1	1	24	50	8.8		
KWAJALEIN MISSILE RGN	7	13.9	14.1	23++	7	30+	81	82	74	76	8	10	4	0	2	0	24	-	8.0		
LIHUE W50 1020.1 AP	6	9.0	12.5	23	NE	11	85	76	61	78	5	11	8	0	0	0	24	72	6.7		
MAJURO W50 AP	7	12.5	12.9	32	E	06	80	82	75	78	5	10	5	2	1	3	26	61	9.0		
PAGO PAGO W50 AP	9	3.3	8.4	23	NE	10	89	89	76	84	2	9	5	2	3	1	22	-	8.2		
PONAPE W50	-	-	-	17	NE	06	88	-	78	81	2	6	9	8	2	3	30	36	9.3		
TRUK.MOEN I. W50 AP	8	8.3	9.9	21	NE	13	84	-	78	79	3	9	9	5	1	0	27	15	9.6		
WAKE ISLAND W50 AP	7	13.1	14.8	31	NE	17	89	90	72	80	3	8	3	0	0	1	15	79	3.9		
YAP W50 AP	8	8.9	9.6	25	NE	04	85	-	73	73	2	9	8	2	0	1	22	56	7.7		

I CERTIFY THAT THIS IS AN OFFICIAL PUBLICATION OF THE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION AND IS COMPILED FROM RECORDS ON FILE AT THE NATIONAL CLIMATIC CENTER, ASHEVILLE, NORTH CAROLINA 28801.

*Daniel B. Mitchell*

DIRECTOR  
NATIONAL CLIMATIC CENTER

noaa

NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION / ENVIRONMENTAL DATA SERVICE / NATIONAL CLIMATIC CENTER ASHEVILLE, N.C.

## MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

HAWAII AND PACIFIC  
APRIL 1978

STATION		TEMPERATURE										PRECIPITATION													
		AVERAGE MAXIMUM	AVERAGE MINIMUM	AVERAGE	DEPARTURE FROM NORMAL	HIGHEST	DATE	LOWEST	DATE	DEGREE DAYS	NO. OF DAYS				TOTAL	DEPARTURE FROM NORMAL	GREATEST DAY	DATE	SNOW, SLEET			NO. OF DAYS			
											MAX.		MIN.						TOTAL	MAX. DEPTH ON GROUND	DATE	10 OR MORE	50 OR MORE	100 OR MORE	
											32° OR ABOVE	32° OR BELOW	32° OR ABOVE	32° OR BELOW											
HAWAII																									
ISLAND OF KAUI																									
ANAHOLA 1114	A	67.8	50.6	59.2		77 29	44 12+			0	0	0	0	2.44		.55	7		0		11	1	0		
KANALOHULU 1075														6.33		2.00	20		0			4	3		
KAPAA STABLES 1104	A													3.83		.90	18		0			2	0		
KILAUEA POINT 1133		80.5M	67.7M	74.1M		84 22+	59 23			0	0	0	0	3.98					0						
KOLOA 936	A													3.94		.94	11		0			2	0		
LIIHUE WSO 1020.1 AP	//R	81.6	66.8	74.2	.9	85 30+	63 16+			0	0	0	0	2.11	- 1.14	.41	13		0		8	0	0		
MANA 1026		84.0	63.3	73.7	.8	88 30	60 26+			0	0	0	0	1.91	-.29	.72	20		0		5	2	0		
N. WAILUA DITCH 1051	A													14.40					0						
PH. WAINIHA 1115														9.87	- 2.71	2.81	11		0				2		
PUEHU RIDGE 1040														3.23	-.64	.82	16		0		6	4	0		
WAIHANA 930	A													1.97	-.71	.50	6		0			1	0		
WAIHAI LOWER 1054		75.5	59.8	67.7		79 30+	54 16			0	0	0	0	10.04	-.72	1.82	8		0		15	9	3		
WAIHIA 947														.77	-.92	.29	20		0		3	0	0		
ISLAND				69.8										4.99					0						
ISLAND OF OAHU																									
ALOHA STADIUM-HALAWA		81.9M	67.7M	74.8M		89 19	64 21			0	0	0	0	3.80		1.55	21		0			2	2		
8 Y U LAIE 903.1		81.4	66.9	74.2		85 20+	63 16			0	0	0	0	3.30		.99	20		0		7	2	0		
HONOLULU OBSERV 702.2		84.4	66.0	75.2		89 30	62 22+			0	0	0	0	2.05		1.17	21		0			3	2	1	
HONOLULU WSO 703 AP	R	84.1	69.4	76.8	2.0	89 29	64 21+			0	0	0	0	2.07		1.16	20		0		5	1	1		
KANEHOE MAUKA 781		78.1M	68.6	73.4M	.8	82 19+	65 22			0	0	0	0	9.13	2.87	1.83	20		0		13	5	4		
KOOLAU DAM 833	A													13.52		2.06	20		0		23	8	5		
MANOA LYON ARBORETUM		78.3	64.3	71.3		85 19	60 22+			0	0	0	0	17.14		2.80	10		0		23	11	7		
NUUANU RES 4 783														11.92	2.94	1.58	20		0		20	10	3		
OPPEULA 870	A	76.1	64.8	70.5	2.4	80 24+	60 21			0	0	0	0	4.31		1.10	21		0						
PAOLO VALLEY 718	R													13.00	1.19	1.88	9		0		18	8	5		
WAIHANA DAM 863	A													3.59		1.24	21		0			2	1		
WAIHOLE 837	A													13.93		2.89	20		0						
WAIKALEE 896.3		79.0M	67.6M	73.3M		84 20	61 6+			0	0	0	0	3.13		.98	10		0		8	1	0		
WAIKALUA 847	A	79.6	62.8	71.2	-.3	85 20	58 16			0	0	0	0	2.76	.44	.74	10		0		5	3	0		
WAIKIKI 717.2		83.3	65.4	74.4		86 30	60 22			0	0	0	0	2.95		1.70	21		0		4	2	1		
WAIMANALO EXP FARM		79.5	67.7	73.6		84 18	62 22			0	0	0	0	4.75		1.11	8		0		9	4	2		
WAIPIAHU 750	A													3.62		1.60	21		0			2	2		
ISLAND				73.5										6.76					0						
ISLAND OF MOLOKAI																									
MOLOKAI AP 524																									
ISLAND																									
ISLAND OF LANAI																									
LANAI CITY 672	A	75.1M	62.3M	68.7M	1.1	83 21	59 23+			0	0	0	0	2.41	-.88	.91	8		0			1	0		
ISLAND				68.7										2.41					0						
ISLAND OF MAUI																									
HALEAKALA 8 E S 434	A	60.7	41.1	50.9	- 1.3	70 29	36 13+			0	0	0	0	4.03		1.20	20		0		11	2	1		
HALEAKALA RS 338														2.73	- 1.30	.60	13		0		7	2	0		
HANA AIRPORT 355		79.9	67.2	73.6		83 21+	63 23			0	0	0	0	6.67		2.21	20		0		14	2	1		
HONOKOHUA 493	A													2.48					0						
KANAPALI AP 453.1		81.3	66.5	73.9		85 29	61 18			0	0	0	0	1.26		1.04	21		0		1	1	1		
KAHULUI WSO 398 AP	R	84.7	68.3	76.5	2.7	89 19	61 22			0	0	0	0	.26	-.99	.10	16		0		1	0	0		
KAILUA 446																			0						
KEANAE 346	A													14.90					0						
KIPAHULU 258														8.57	1.24	1.06	15		0		18	8	1		
KULA SANATORIUM 267		70.3	55.3	62.8	.7	73 29+	53 20+			0	0	0	0	5.33	2.35	1.90	20		0		7	4	2		
LAHAINA 361		85.9	67.1	76.5	3.2	88 28+	63 12+			0	0	0	0	1.13	.20	1.10	21		0			1	1		
PAIA 406														.86	- 1.86	.20	3		0			5	0	0	
WAILUKU 386	A									0	0	0	0	.48	- 1.93				0				0	0	
ISLAND				69.0										4.06					0						
ISLAND OF HAWAII																									
HAWAII VOLCNS NP HQ 54	R	68.2M	51.9M	60.1M	1.1	74 22	46 17			0	0	0	0	7.54	- 2.56	1.11	7		0			6	1		
HICO WSO AP 87	A	82.4	65.9	74.2	2.0	89 20	62 11+			0	0	0	0	6.53	- 6.35	1.69	7		0		13	5	2		
HUEHUE 92.1														3.83		1.23	8		0			7	3	1	
KAINALIU 73.2		77.6	59.3	68.5		82 28+	57 23+			0	0	0	0	5.41	-.48	1.19	13		0		11	4	2		
KAPOHO BEACH 93.11		83.5	67.6	75.6		88 17	63 8			0	0	0	0	9.25		4.20	18		0		9	3	2		
KEAAU 92																			0						
KONA (KAILUA) 68.3	A													2.78					0						
KUKUIHALE HIC 199														5.83	- 2.34	2.68	28		0		12	2	0		

SEE REFERENCE NOTES FOLLOWING STATION INDEX



# MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

HAWAII AND PACIFIC  
APRIL 1978

STATION		TEMPERATURE											PRECIPITATION													
		AVERAGE MAXIMUM	AVERAGE MINIMUM	AVERAGE	DEPARTURE FROM NORMAL	HIGHEST	DATE	LOWEST	DATE	DEGREE DAYS	NO. OF DAYS				TOTAL	DEPARTURE FROM NORMAL	GREATEST DAY	DATE	SNOW, SLEET			NO. OF DAYS				
											MAX.		MIN.						TOTAL	MAX. DEPTH ON GROUND	DATE	-1.0 OR MORE	-5.0 OR MORE	1.00 OR MORE		
											30° OR ABOVE	32° OR ABOVE	32° OR BELOW	30° OR BELOW												
HAWAII																										
KULANI CAMP 79	A	62.4 M	45.6 M	54.0 M		70	23+	41	28+		0	0	0	0	7.01		1.01	7	.0	0		19	4	1		
PAHALA 21											0	0	0	0	3.07				.0	0						
POHAKULOA 107															.00		.00		.0	0		0	0	0		
PUUKOHOLA HEIAU 98.1	A	87.3M	65.8M	76.6M		92	28	59	3+		2	0	0	0	.05		.05	22	.0	0		0	0	0		
PUU WAAWAA 94.1															3.85				.0	0						
SOUTH KONA 2.31		77.0	55.4	66.2		83	22	45	30		0	0	0	0	1.55		.26	13	.0	0		6	0	0		
WAIKAE 500 88.2															17.87		3.44	8	.0	0		21	9	4		
ISLAND				67.9											5.33				.0							

SEE REFERENCE NOTES FOLLOWING STATION INDEX

## MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

HAWAII AND PACIFIC  
APRIL 1978

STATION		TEMPERATURE										PRECIPITATION																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
		AVERAGE MAXIMUM	AVERAGE MINIMUM	AVERAGE	DEPARTURE FROM NORMAL	HIGHEST	DATE	LOWEST	DATE	DEGREE DAYS	NO. OF DAYS				TOTAL	DEPARTURE FROM NORMAL	GREATEST DRY DATE	SNOW, SLEET			NO. OF DAYS																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
											MAX.	MIN.	TOTAL	DEPARTURE FROM NORMAL				GREATEST DRY DATE	TOTAL	MAX. DEPTH ON GROUND	DATE	.10 OR MORE	.50 OR MORE	1.00 OR MORE																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
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SEE REFERENCE NOTES FOLLOWING STATION INDEX

# DAILY PRECIPITATION

HAWAII AND PACIFIC  
APRIL  
1978

STATION	TOTAL	DAY OF MONTH																																
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
HAWAII																																		
ISLAND OF KAUAI																																		
ANAHOLA 1114	A	2.44	x	x	.16		.03	.20	.55	x		.40	.15	.20	.03	x	x	.17	.35		.10	.07	x	x	.03		.03	.10	.03	x	x			
BOVESWORTH STA 085	A	3.08	x	x		.01		.67	.26	x	x	.06	.22	.11	.03	.07	x	x	.52	.01		.05	.50	.15		.01	.20	.03	x	x				
EAST LAHAI 934	A	3.84	x	x	.17		.02	.58	.27	x	x	.14	.60	.18	.10	.15	x	x	.17		.12	.90	.04			.01	.20	.08	x	x				
ELELEE 927	A	1.05	x	x	.12		.17	.32	.05	x	x	.12	.02	T	T	x	x	.11		.17	.13					.04	.03	T	x	x				
HUALAIA 1110	A	3.32	x	x	.02		.13	.20	.45	x	x	.05	.45	.20	.47	.03	x	x	.30	.40		.10	.10	x	x	.04	.03	.30	.05	x	x			
HALENAHANA 1008	A	5.46	x	x	.02		.03	.71	.38	x	x	.85	.72	.29	.19	.19	x	x	.36		.37	.61	.06			.04	.41	.12	x	x	4.40			
HANALEI TUNNEL 1053	A	4.40	x	x		x	x	x	x	x	x	x	x	x	x	x	x	x	.12		.42	.05												
HUKILO 946	A	1.13													.04	.50																		
ILILILUA INTAKE 1050	A	11.08	x	x	.28	.10	.08	1.12	.80	x	x	1.05	.08	.49	.41	2.28	x	x	2.31	.07	.04	.56	.04	x	x	.07	.01	.24	.79	.21	x			
INTAKE MAIHIKA PC 1088	A	18.28	x	x	.65				2.34	x	x	4.04	3.82	x	x	1.52	x	x	1.67	x	x	.83			.01									
KANALOHULU 1075	A	6.33		.12	.01	.08	.05	.03	.03		.01	.15	.04		1.05	.26	1.14	.70	.05	.05	2.00	.10	.10	.15	.04	.01	.13	.03						
KANEHA RESERVOIR 1092	A	7.55	x	x	.02		.17	.55	.85	x	x	.70	.80	.70	1.75	.10	x	x	.84	.15		.10	.15	x	x	.12	.05	.10	.45	.15	x			
KAPPA STABLES 1104	A	9.60			.05	.05	.30	.24	.19	x	x	.76	.48	x	.30	.40			.30	.40	.27	.02	x	x	.08		.18							
KEALA 1112	A	2.64				.10	.25	.30				.38	.05	.25	.05	x	x	.15	.70		.02	.20	.03	x	x	.03		.10	.03	x	x			
KEKONA 944	A	1.11												.17				.32		.02	.55	.05												
KILAUEA 1134	A	5.53		.10	.05	.04	.40	.35	.25	.04	.02	.11	.80	.04	1.27	.34	.75		.25	.02	.05	.05	.04	.08	.06	.07	.08	.37	.14	.24	.02			
KILAUEA POINT 1133	A	3.48	x	.10	.02	.01	x	.38	.11	.31		.15	x	1.44	x	.29		.25	.02	.13	.02	.01	.05	.07	.04		.05	.24	x	.21	.03			
KOLB 1033	A	2.42							.27	x		.33	.94	.10	.10	.23	.15		.86		1.32	.05							.21	x	x			
KOLBA 936	A	3.94	x	x	.21		.01	.46	.04			.15	.25	.04	T	.04	.04		.10	.15	.56	.03					.10	.08	.05	.10	.04			
KOLBA LN (PMT) 940.1	A	2.10			.01	.07	.62																				.01		.03	.01				
KOLBA MUKA 944	A	5.46	x	x	x	.35	.46	x	x	x	x	1.63	.14	x	x	x	x	1.40		.20	x	x	x	x	x	1.10	.01	x	x	x	x			
KUKUIULA 935	A	2.20	T			.01	.42	.13	x	x	x	.12	.27	.10	.08	.07	x	x	.11		.05	.68	.07				.02	.07	x	x	x			
LIHUE VARIETY ST 10821	A	0.50	x	x	.15		.93	.50	x	x	x	.40	.71	.42	.85	.10	x	x	1.32	.11	.13	.38	.04	x	x	.03		.51	.07	x	x			
LIHUE 1020	A	4.05	x	x	.02	.06	.40	.14	x	x	x	.48	.60	.08	.88	.41	x	x	.19		.30	.33	.03				.02	.03	.10	x	x			
LIHUE WSO 1020.1 AP	A	2.11	T	.01		.18	.15	.01	T	.03		.22	.28	.20	.41	.03	.06		.02		.18						.08	.05	.10	T	.04			
MAKALEI 065																																		
MAKA 1028	A	1.01							.08	.3A									.51															
MAKAI UPD C055 1083	A	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x			
MOLAA 1145	A	1.85	x	x	.20													1.85	x	x	x	x	x	x	x	x	x	x	x	x	x			
MOUNT MAIALEALE 1047	A																																	
MAUI																																		
MAUI 0100E 1035	A	2.08							.12			1.54	.83	.20			.12	.50			.34	.40	.10				.01	.23	.55	.28	x			
M KAILUA OITCH 1051	A	14.40	x	x	.30	.12	.13	1.18	.62	x	x	1.54	.83	.20			.58	1.91	x	x	5.02	.03	.03	.52	.07	x	x				9.60			
M KAILUA RIVER 1055	A	9.60	x	x	x																													
MAIHIKA 1115	A	0.87	x	x	.34	.24	.14	.82	.58	x	x	.72	2.81	.98	.09	.56	x	x	.49		.02	.18	.01	x	x	.17	.08	.30	1.14	.13	.09			
PRINCEVILLE DANC 1117	A	7.43	x	x	.27	.08	.07	.64	.51	x	x	.41	.84	.20	.26	2.28	x	x	.70						x	x	.11	.02	.23	.41	.30			
PUEHU 0100E 1040	A	3.23						.10	.69				.60	.15	.82						.77	.07						.03						
PUIHI 1013	A	2.64				.07	.22	.08	x	x	x	.42	.37	.13	.03	.08	x	x	.42		.17	.55	.05					.03						
WAIHANA 830	A	1.97	x	x	.12	.03	.50	.17	.11	T		.15	.11	T	.01	.03	x	x	.22		.01	.41	.13				.04	.02	.02	x	x			
WAIHANA LANE 1054	A	10.04	.08	.05	.08	.04	.07	1.08	.56	1.82	.02	.04	.77	.52	.31	.88	.52	.68	.36	.08		.06	.31	.05	.02	.01	.01	.05	1.25	.11	.30	.11		
WAIHANA UPPER 1052	A	12.20	.18	.07	.23	.09	.06	.99	.74	1.32	.04	.04	.85	.46	.39	2.31	1.08	.58	.41	.04	.08	.66	.03	.03	.02		.05	1.09	.13	.18	.09			
WAIHANA 943	A	1.53												.14				.10	.24		.19	.75	.08											
WAILUA KAI 1065	A	3.72	x	x	.07		.05	.35	.30	x	x	.17	.41	.34	.87	.34	x	x	.34	.02		.18	.06	x	x	.04	.03	.26	.04	x	x			
WAIHANA 947	A	.77													.08	.23		.10	.02		.20	.05												
WEST LAHAI 931	A	2.70	x	x	.13	.03	.50	.1A	x	x	x	.22	.32	.07	.07	.12	x	x	.11		.05	.68	.13				.06	.04	x	x				
ISLAND OF OAHU																																		
ALBHA STADIUM-HALAHU	A	3.80	T	T		.01	x	.32	.23	.45	.08	T	.01	T	x	.10	.06	x	.01		1.08	1.55	T	x	.02		.03	.03	.01	.06				
BEGETANIA PUMPING STA	A	3.42	x	x	.01	.11	.08	.01	.23	x	x	.31	.22	.22	T	.10	.06	x	.01		.20	.21	T	x	.02		.03	.03	.01	.06				
8 Y U LAIE A03.1	A	3.30		.09	T	.07	.19	.08	.05			.66	.11	.04	.08	.07	.02	.08	T	.17	.14	.98	.04	T	.03		.07	.09	.04	.1A	.01			
CAMPBELL TND PK 702.5	A	3.41				.05			T	.1A	.03	T	.1A	.03	T	.1A	.03	T	.1A	.03	T	.1A	.03	T	.1A	.03	T	.1A	.03	T	.1A	.03		
CAMP 84 807	A	3.65				.02	x	x	.14	.30	.18	x	.54	x	x	.64	x	x	1.07	.74						x	x	.04	x	x				
COCANUT ISLAND 840.1	A	3.95	x	x	.01		.08	.03	x	x	x	.83	.31	.01	.02	.01	x	x	.88	x	.04	.81	.86	x	x	.02	T	.02	.13	.11				
ELM PLANTATION 741	A	3.23						.05	x	x	x	.15	.0A	.01	.12	x	x	.03			1.11	1.72	x	x	.16	x	x	.46	x	x				
HELEMANA INTAKE 081	A	7.46	x	x	.16	x	x	x	.05	x	x	2.46	x	x	1.00	x	x	.52	x	x	3.13	x	x	.16	x	x	x	.46	x	x				
HONOLULU OBSERV 702.2	A	2.05				.04		.04	.01	.11		.18	.05	.02	.07	.03		.02																

HAWAII AND PACIFIC  
APRIL 1978

STATION		TOTAL	DAY OF MONTH																														
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
HAWAII																																	
ISLAND OF LANAI																																	
KANEPUU 690	A	1.03	x	x	x	x	1.00	x	x	x	x	x	x	x	x	x	x	x	x	x	.75	x	x	x	x	x	x	x	x	x	x	x	x
KAUAIAPU HARBOUR 550	A	1.24	-	-	-	-	-	-	-	.60	-	-	-	-	-	.21	-	-	-	-	.05	.10	.20	-	-	-	-	-	-	-	-	-	-
LANAI AIRPORT 850	A	2.21	-	-	-	-	-	-	-	.01	-	.04	.02	-	-	-	-	-	-	.30	.10	.11	.43	-	-	-	-	.01	.07	-	-	-	.26
LANAI CITY 872	A	2.17	x	x	.02	x	x	.50	x	x	x	x	x	x	x	x	1.50	x	x	x	.10	.11	.43	x	x	.06	.01	.07	-	-	-	x	
LANAI HALE 084	A	2.17	x	x	x	x	x	.50	x	x	x	x	x	x	x	x	1.50	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	
ISLAND OF MAUI																																	
AWAHI 252	A	1.05	x	x	x	x	x	x	x	x	x	x	x	x	.55	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	.50		
HALEKAL 477	A	10.50	x	x	x	x	x	x	x	x	x	x	x	x	.55	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	10.50	
HALEKAL 6 E 5 434	A	4.03	.21	.39	.12	.02	.03	.06	.12	.34	.02	x	x	x	.27	.01	.02	x	x	x	1.20	.13	.01	.56	.02	.02	.06	.19	.01	x	.22		
HALEKAL 6S 338	A	2.61	x	x	.18	T	.03	.02	.50	.06	.36	.15	.80	.45	T	.18	.04	.29	.07	.07	.06	T	.07	.06	T	.03	.02	T	x	x	x	x	
HALEKAL 6S 338	A	2.70	x	x	.18	T	.03	.02	.50	.06	.36	.15	.80	.45	T	.18	.04	.29	.07	.07	.06	T	.07	.06	T	.03	.02	T	x	x	x	x	
HALEKAL 6S 338	A	2.70	x	x	.18	T	.03	.02	.50	.06	.36	.15	.80	.45	T	.18	.04	.29	.07	.07	.06	T	.07	.06	T	.03	.02	T	x	x	x	x	
HALEKAL 6S 338	A	2.70	x	x	.18	T	.03	.02	.50	.06	.36	.15	.80	.45	T	.18	.04	.29	.07	.07	.06	T	.07	.06	T	.03	.02	T	x	x	x	x	
HALEKAL 6S 338	A	2.70	x	x	.18	T	.03	.02	.50	.06	.36	.15	.80	.45	T	.18	.04	.29	.07	.07	.06	T	.07	.06	T	.03	.02	T	x	x	x	x	
HALEKAL 6S 338	A	2.70	x	x	.18	T	.03	.02	.50	.06	.36	.15	.80	.45	T	.18	.04	.29	.07	.07	.06	T	.07	.06	T	.03	.02	T	x	x	x	x	
HALEKAL 6S 338	A	2.70	x	x	.18	T	.03	.02	.50	.06	.36	.15	.80	.45	T	.18	.04	.29	.07	.07	.06	T	.07	.06	T	.03	.02	T	x	x	x	x	
HALEKAL 6S 338	A	2.70	x	x	.18	T	.03	.02	.50	.06	.36	.15	.80	.45	T	.18	.04	.29	.07	.07	.06	T	.07	.06	T	.03	.02	T	x	x	x	x	
HALEKAL 6S 338	A	2.70	x	x	.18	T	.03	.02	.50	.06	.36	.15	.80	.45	T	.18	.04	.29	.07	.07	.06	T	.07	.06	T	.03	.02	T	x	x	x	x	
HALEKAL 6S 338	A	2.70	x	x	.18	T	.03	.02	.50	.06	.36	.15	.80	.45	T	.18	.04	.29	.07	.07	.06	T	.07	.06	T	.03	.02	T	x	x	x	x	
HALEKAL 6S 338	A	2.70	x	x	.18	T	.03	.02	.50	.06	.36	.15	.80	.45	T	.18	.04	.29	.07	.07	.06	T	.07	.06	T	.03	.02	T	x	x	x	x	
HALEKAL 6S 338	A	2.70	x	x	.18	T	.03	.02	.50	.06	.36	.15	.80	.45	T	.18	.04	.29	.07	.07	.06	T	.07	.06	T	.03	.02	T	x	x	x	x	
HALEKAL 6S 338	A	2.70	x	x	.18	T	.03	.02	.50	.06	.36	.15	.80	.45	T	.18	.04	.29	.07	.07	.06	T	.07	.06	T	.03	.02	T	x	x	x	x	
HALEKAL 6S 338	A	2.70	x	x	.18	T	.03	.02	.50	.06	.36	.15	.80	.45	T	.18	.04	.29	.07	.07	.06	T	.07	.06	T	.03	.02	T	x	x	x	x	
HALEKAL 6S 338	A	2.70	x	x	.18	T	.03	.02	.50	.06	.36	.15	.80	.45	T	.18	.04	.29	.07	.07	.06	T	.07	.06	T	.03	.02	T	x	x	x	x	
HALEKAL 6S 338	A	2.70	x	x	.18	T	.03	.02	.50	.06	.36	.15	.80	.45	T	.18	.04	.29	.07	.07	.06	T	.07	.06	T	.03	.02	T	x	x	x	x	
HALEKAL 6S 338	A	2.70	x	x	.18	T	.03	.02	.50	.06	.36	.15	.80	.45	T	.18	.04	.29	.07	.07	.06	T	.07	.06	T	.03	.02	T	x	x	x	x	
HALEKAL 6S 338	A	2.70	x	x	.18	T	.03	.02	.50	.06	.36	.15	.80	.45	T	.18	.04	.29	.07	.07	.06	T	.07	.06	T	.03	.02	T	x	x	x	x	
HALEKAL 6S 338	A	2.70	x	x	.18	T	.03	.02	.50	.06	.36	.15	.80	.45	T	.18	.04	.29	.07	.07	.06	T	.07	.06	T	.03	.02	T	x	x	x	x	
HALEKAL 6S 338	A	2.70	x	x	.18	T	.03	.02	.50	.06	.36	.15	.80	.45	T	.18	.04	.29	.07	.07	.06	T	.07	.06	T	.03	.02	T	x	x	x	x	
HALEKAL 6S 338	A	2.70	x	x	.18	T	.03	.02	.50	.06	.36	.15	.80	.45	T	.18	.04	.29	.07	.07	.06	T	.07	.06	T	.03	.02	T	x	x	x	x	
HALEKAL 6S 338	A	2.70	x	x	.18	T	.03	.02	.50	.06	.36	.15	.80	.45	T	.18	.04	.29	.07	.07	.06	T	.07	.06	T	.03	.02	T	x	x	x	x	
HALEKAL 6S 338	A	2.70	x	x	.18	T	.03	.02	.50	.06	.36	.15	.80	.45	T	.18	.04	.29	.07	.07	.06	T	.07	.06	T	.03	.02	T	x	x	x	x	
HALEKAL 6S 338	A	2.70	x	x	.18	T	.03	.02	.50	.06	.36	.15	.80	.45	T	.18	.04	.29	.07	.07	.06	T	.07	.06	T	.03	.02	T	x	x	x	x	
HALEKAL 6S 338	A	2.70	x	x	.18	T	.03	.02	.50	.06	.36	.15	.80	.45	T	.18	.04	.29	.07	.07	.06	T	.07	.06	T	.03	.02	T	x	x	x	x	
HALEKAL 6S 338	A	2.70	x	x	.18	T	.03	.02	.50	.06	.36	.15	.80	.45	T	.18	.04	.29	.07	.07	.06	T	.07	.06	T	.03	.02	T	x	x	x	x	
HALEKAL 6S 338	A	2.70	x	x	.18	T	.03	.02	.50	.06	.36	.15	.80	.45	T	.18	.04	.29	.07	.07	.06	T	.07	.06	T	.03	.02	T	x	x	x	x	
HALEKAL 6S 338	A	2.70	x	x	.18	T	.03	.02	.50	.06	.36	.15	.80	.45	T	.18	.04	.29	.07	.07	.06	T	.07	.06	T	.03	.02	T	x	x	x	x	
HALEKAL 6S 338	A	2.70	x	x	.18	T	.03	.02	.50	.06	.36	.15	.80	.45	T	.18	.04	.29	.07	.07	.06	T	.07	.06	T	.03	.02	T	x	x	x	x	
HALEKAL 6S 338	A	2.70	x	x	.18	T	.03	.02	.50	.06	.36	.15	.80	.45	T	.18	.04	.29	.07	.07	.06	T	.07	.06	T	.03	.02	T	x	x	x	x	
HALEKAL 6S 338	A	2.70	x	x	.18	T	.03	.02	.50	.06	.36	.15	.80	.45	T	.18	.04	.29	.07	.07	.06	T	.07	.06	T	.03	.02	T	x	x	x	x	
HALEKAL 6S 338	A	2.70	x	x	.18	T	.03	.02	.50	.06	.36	.15	.80	.45	T	.18	.04	.29	.07	.07	.06	T	.07	.06	T	.03	.02	T	x	x	x	x	
HALEKAL 6S 338	A	2.70	x	x	.18	T	.03	.02	.50	.06	.36	.15	.80	.45	T	.18	.04	.29	.07	.07	.06	T	.07	.06	T	.03	.02	T	x	x	x	x	
HALEKAL 6S 338	A	2.70	x	x	.18	T	.03	.02	.50	.06	.36	.15	.80	.45	T	.18	.04	.29	.07	.07	.06	T	.07	.06	T	.03	.02	T	x	x	x	x	
HALEKAL 6S 338	A	2.70	x	x	.18	T	.03	.02	.50	.06	.36	.15	.80	.45	T	.18	.04	.29	.07	.07	.06	T	.07	.06	T	.03	.02	T	x	x	x	x	
HALEKAL 6S 338	A	2.70	x	x	.18	T	.03	.02	.50	.06	.36	.15	.80	.45	T	.18	.04	.29	.07	.07	.06	T	.07	.06	T	.03	.02	T	x	x	x	x	
HALEKAL 6S 338	A	2.70	x	x	.18	T	.03	.02	.50	.06	.36	.15	.80	.45	T	.18	.04	.29	.07	.07	.06	T	.07	.06	T	.03	.02	T	x	x	x	x	
HALEKAL 6S 338	A	2.70	x	x	.18	T	.03	.02	.50	.06	.36	.15	.80	.45	T	.18	.04	.29	.07	.07	.06	T	.07	.06	T	.03	.02	T	x	x	x	x	
HALEKAL 6S 338	A	2.70	x	x	.18	T	.03	.02	.50	.06	.36	.15	.80	.45	T	.18	.04	.29	.07	.07	.06	T	.07	.06	T	.03	.02	T	x	x	x	x	
HALEKAL 6S 338	A	2.70	x	x	.18	T	.03	.02	.50	.06	.36	.15	.80	.45	T	.18	.04	.29	.07	.07	.06	T	.07	.06	T	.03	.02	T	x	x	x	x	
HALEKAL 6S 338	A	2.70	x	x	.18	T	.03	.02	.50	.06	.36	.15	.80	.45	T	.18	.04	.29	.07	.07	.06	T	.07	.06	T	.03	.02	T	x	x	x	x	
HALEKAL 6S 338	A	2.70	x	x	.18	T	.03	.02	.50	.06	.36	.15	.80	.45	T	.18	.04	.29	.07	.07	.06	T	.07	.06	T	.03	.02	T	x	x	x	x	
HALEKAL 6S 338	A	2.70	x	x	.18	T	.03	.02	.50	.06	.36	.15	.80	.45	T	.18	.04	.29	.07	.07	.06	T	.07	.06	T	.03	.02	T	x	x	x	x	
HALEKAL 6S 338	A	2.70	x	x	.18	T	.03	.02	.50	.06	.36	.15	.80	.45	T	.18	.04	.29	.07	.07	.06	T	.07	.06	T	.03	.02	T	x	x	x	x	
HALEKAL 6S 338	A	2.70	x	x	.18	T	.03	.02	.50	.06	.36	.15	.80	.45	T	.18	.04	.29	.07	.07	.06	T	.07	.06	T	.03	.02	T	x	x	x	x	
HALEKAL 6S 338	A	2.70	x	x	.18	T	.03	.02	.50	.06	.36	.15	.80	.45	T	.18	.04	.29	.07	.07	.06	T	.07	.06	T	.03	.02	T	x	x	x	x	
HALEKAL 6S 338	A	2.70	x	x	.18	T	.03	.02	.50	.06	.36	.15	.80	.45	T	.18	.04	.29	.07	.07	.06	T	.07	.06	T	.03	.02	T	x	x	x	x	
HALEKAL 6S 338	A	2.70	x	x	.18	T	.03	.02																									

SEE REFERENCE NOTES FOLLOWING STATION INDEX

# DAILY PRECIPITATION

HAWAII AND PACIFIC  
APRIL 1978

STATION	TOTAL	DAY OF MONTH																															
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
HAWAII																																	
KONA VILLAGE 93.8	.30							.11							.04	.01					.04	.10											
KURIAU 222	7.77	.32	.14	.69	.03	.35	.20	1.46	.10	.03					.35				.08	.07			.09	.05	.05	.11	.47	.24	.79	.23	1.79	.04	.09
KUKUHALE HIC 190	5.63	.04	.10	.31		.18	.27	.36	.11					.23	.09	x		.04						x	.03	.38	.25	.80	.18	2.88	.07		
KUKUHALE HILL 208	4.50	x	x	.72	.04	.05	.11	.58	x		.20	.01			.07	.73	.44	87	.05	.25			.39	.05	.17	.30	.09	.07	.24	.20	.10	.04	.87
KULANI CAMP 79	7.01	.22	.18	.30		.25	.10	1.01	.20	.20	.02				.07	.73	.44	87	.05	.25			.39	.05	.17	.30	.09	.07	.24	.20	.10	.04	.87
KULANI MAUKA 78	2.69	x	x	.15	x	x	x	x	x	x	.88	x	x	x	x	x	x	1.20	x	x	x	x	x	x	x	.17	x	x	x	x	x	.28	
KULANI SCHOOL SITE 79	5.90	.85	x	x	x	x	x	x	2.80	x	x	x	x	x	x	1.20	x	x	x	x	x	x	1.25	x	x	x	x	x	x	x	x	x	
LAMIAU 86.2	4.42			.75	.14	.03			.71	.81				.08	.46	.28	.20					.47			.08		.55	.10					
MAKAHALU 103	1.40										.20							.75									.13						
MAUKA 2	3.46	x	x	.30				.01	x	x	.25			.20	x	x	.80	.80				.50			x	x	.10	.20	.50				
MAUNA KEA 085 711.2	.51							.10	.18								.23																
MAUNA LOA SLOPE 085	1.15				x	x	x	.03	x	x	.52	x	x	x	x	x	x	.80															
MIDDLE MOUNTAIN 88.1	4.16	x	x	.70	x	x	x	x	x	x	2.80	x	x	x	x	x	x	.40	x	x	x	x	x	x	x	x	.46	x	x	x	x	x	
MIDDLE PEN 147.1	.43	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	.43	x	x	x	x	x	x	x	x	x	x	x	x	x		
MOAUA 18	2.32	x	x	x	x	x	x	1.60	x	x				x	.50	x	x	x	x	x	x	x	x	x	.02								
MOUNTAIN VIEW 91	x	x	x	1.34	.03	.08	.36	2.60	x	x	1.35	.03	.02	.18	.22	x	x	1.80	.01	.14			x	x	.83	.32	.57	.02	.32	x	x		
NAALEHU 14	3.21		.01		x	x	x	.07	x	2.17					.13			.07	.23	.32			x	x	.19	x	x	x	x	x	.21		
NAPPOPOO 28	2.35	x	x	1.10	x	x	x	x	x	x	1.08												x	x	x	.16	.83	.28	1.19	.05	.22		
OKALA 223	8.27	.38	.50	.10	.15	.08	.12	2.73	.41	.01	.08	.02		.01	T	.02	.03	.05	.03	.88	.01	.17	.04	.01	.05	.16	.83	.28	1.19	.05	.22		
OPINIALE 2 24.1	2.87	.05	.21	.01	T	T		T	.85	.08	.07	T	.33	.35	.08	.09			.12						.04	.08	T			.17	.18	T	
ORCHID LAND EST 91.5	7.71	x	x	x	x	x	x	3.70	x	x	x	x	x	x	.49	x	x	x	x	x	2.42	x	x	x	x	x	x	x	x	1.10	x	x	
PAHAUHAU 217	5.38	.13	.21	.37	.02	.14	.08	.83	.18					.08			.08							.08	.24	.08	.42	.22	2.20	.04			
PARAU 221	8.32	.15	.08	.82	.01	.34	.12	.95	.44	.03	.08	x	1.04	.24			x	.22	.39	.31	T		.02	.05	.47	.27	.58	.15	1.81	.10	.05		
PAHALA 21	3.07							.08	x	1.04				.27			x	.22	.39	.31	.01		.74			.03							
PAHUA 85	x	x	x	1.17	.05		.27	1.39	x	x	1.41	.07	.08	.28	x	x	1.95	.08		.31	.38	.55	x	x	.54	.14	.28	.07	.28	x	x		
PAKAO 37	x																																
PAPAIAU 144.1	8.17	x	x	1.10	.02		.14	2.07	x	x	1.74	.08	.03	.28	.03	x	x	1.52	.13	.23	.01		x	x	.17	.17	.28	.03	.18				
PAPAIAU MAUKA 140.1	14.79	x	x	2.03	.15	.08	.22	3.05	x	x	1.98	.07	.03	.42	.23	x	x	1.85	.98	.96			x	x	.32	.41	1.46	.05	.54				
PIIOMUA 89	25.80	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	25.80	x		
POHAKULUA 107	.00																																
PUKUNOHA HEIAU 98.1	.05							T															.05										
PUU LEHUA 73	1.00	x	x	x	x	x	x	x	x	x	1.81			x	x	x	x	1.04		1.05		x	x	x	.10	x	x	x	x	x	1.00	x	
PUU MAHUA 94.1	3.85							.05	x	x																							
SADOLE ROAD 1 84	x																																
SOUTH KONA 2 31	1.55							.04		.19				.28	.07	.05		.18	.02	.18					.23	.08	.02				.02		
SOUTH POINT CORRAL 3	.33	x	x	x	x	x	x	.10	x	T	x	x	x	x	.02	x	x	x	x	x	.18	x	x	x	x	x	x	x	x	.02	x	x	
UPULU POINT USCG 159.2	1.44	.10	.07	T			.04	.48	T	.10			.01									.27		.01	.01	T	T	.10	.24	.01			
WATAKA 500 88.2	17.87	.52	.52	.31	.02	.03	.44	3.03	3.44	.15			.05	.03	.10	.35	.55	.37	2.81	2.16	.58		.09	.16	.27	.22	.23	.04	.46	.11	.83		
WATAKA-8015 CAS 95.8	.47							.22						.10								.13	.02										

SEE REFERENCE NOTES FOLLOWING STATION INDEX



# DAILY PRECIPITATION

HAWAII AND PACIFIC  
APRIL 1978

STATION	TOTAL	DAY OF MONTH																															
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
PACIFIC																																	
EAST OF 180TH MERIDIAN																																	
ATU'U	11.47	.79	.68					.42	.21	.05	1.51	.23	.02	1.42	.99	.25	.22	1.62						.02	.14	.10			.71	.27		.17	1.70
CANTON ISLAND	.78							.18			.23	.02	.71	.42	.82	1.04	.32	1.64	.04	.28	.71	T	.18				.02						
FALEASAD VILLAGE	11.58		.15	2.01	.07			.16	.78				.71	.42	.82	1.04	.32	1.64	.04	.28	.71	T	.18				.02						
JOHNSTON IS WSO AP	.56	.01	.07	.01	.02	.01	.02	.06	T	T	.01	.06			.02		T						.02										
LEONE	6.46	.25	1.16	.03				.07	.10		.58	.03	.49	.13	.04	.14							.10				.45	.12	1.70	.82	.57	.05	1.65
FRENCH FRIGATE SHOALS																																	
MIDWAY SAND ISLAND	1.30		.01			.28	.21				.03	.05	.58			.03	.03	T		.01	.01	.01	T								.06	.01	
PAGO PAGO WSO AP	9.24	.84	.01	.02		.02		T	.05	.14	2.00	.04	.41	.68	.07		1.07	.06		.33		.03		.01			T	.42	.42		1.26	1.25	
WESTERN PACIFIC ISL.																																	
NORTH OF 12 N																																	
ANDERSEN AFB GUAM	3.69	T			1.31	.23	.11	.57	T	.33	.06	.01	.01	.02	T	.03				T		.33	.08	.05	.11	.05	T		.02	.02	.03	.31	
CLARK AFB LUZON	.80																			T							.11		T	.25	.03	.46	
GUAM HAS	2.16				.06	.07	.18	.86	.05	.08	.01	T	.02	T	.01	T	.03	T	.05	.22	T	.01		.17	.16	.03	T				T	.15	
GUAM WSO	2.65	T			.80	.08	.15	.37	.08	.10	.02		.01	.09	.04	.01		.01	.02	.28	T	.10		.12	.19	.03	.01	.01	.01		T	.11	
MANGILAO	2.38				.12	.04		.90	.26	.20	.03			.15		.11						.26			.06	.08			.07			.08	
GOTA																																	
SAIPAN LOGAN																																	
WAKE ISLAND WSO AP	4.14	.01			T		.02	.20	.20	.03			.28	T			3.23	.06															
CAROLINE AND MARSHALL ISLANDS																																	
ANDUA																																	
ENUEKTA																																	
FALADOP I ULITHI ATOLL																																	
KAPINGAMBAI ATOLL																																	
KOROR WSO	6.88	T	1.25	2.50	.57	.08		.02	.18	.02	T		.82	.03		.47	.16	.58	.28				T	.01	.46	T		.22	.11		.03	.32	.85
KURAJALEIN MISSILE BGN	5.30	.38	T		T	.01	.08		T	T			.02		T	.04	T	1.68	1.90	.05	T	.03	.03	.08	.28	.23	T	.01	.08		.37		
LELE I KOSRAE																																	
MAJURO WSO AP	12.85	.25	.01				.34	.43	T	T	2.58	.07	.01	T	T		3.22	1.22	.03	T	.01	.05	.10	.14	.01	.01	.72	.01	2.71	.03	.68		
METALANIH	10.52	2.30	.34	.08	.01	.01	.01		.01	3.06	2.00	1.20	.18	1.03	.28	.50	.49	.95	.12	.53		1.86	.04	1.07	1.71	.43	.05	.58	.23	.01	.41		
MOEL ATOLL																																	
NGASANG, GAGELTHUAP																																	
PONAPE WSO	18.91	2.32	.36	.51	T	T	.01	.05	.04	2.45	2.43	.04	.55	.88	.54	.20	.05	.20	.28	.07	.24	.58	.13	.36	1.80	.07	.94	1.46	.39	.68	.28		
SATAVAN ATOLL																																	
TEBUK, MOEN I. WSO AP	8.17	.33	.06	.08		.14	T	T	.03		.06	1.75	.82	.27	.79	.05	.27	.03	.02	.02	.70	.36	.55	.28	.43			.18	.04	.38	.51		
WOLEAI ATOLL	10.24	.25	.42		.58	.38		.12	.33	.05	.03		.15	.37	1.87	.78	.16	1.31	.87	.81	.03	.43	.55	.04	.01	.02	.05	.83	.02	.23			
YAP WSO AP	5.38	.03	T	.16	.24	.03		.02	.08	.10		.27	.08	T	.02		.27	2.20	.65	.08	.03		.15	.50	.31				.03	.11			

SEE REFERENCE NOTES FOLLOWING STATION INDEX

# DAILY TEMPERATURES

HAWAII AND PACIFIC  
APRIL 1978

STATION	DAY OF MONTH																															AVERAGE	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
HAWAII																																	
ISLAND OF KAUAI																																	
KANALOHULU 1075	MAX MIN	70 53	69 53	68 53	68 51	66 54	67 53	68 48	70 44	69 48	66 52	67 54	65 44	67 46	66 52	67 54	65 47	69 48	70 45	61 50	67 59	65 50	64 49	67 49	67 49	69 47	68 51	67 53	72 56	77 54	73 52	67.8 50.6	
KILAUEA POINT 1133	MAX MIN	81 68	79 70	81 71	81 72	81 69	81 70	76 69	79 69	79 68	81 69	79 67	81 69	77 65	78 66	80 67	82 67	81 66	84 67	83 67	83 67	78 68	84 67	83 67	78 68	80 62	81 68	81 70	81 67	81 72	83 72	80.5 67.7	
KOLOA LN (MAK) 940.1	MAX MIN	81 71	82 70	81 71	82 72	81 69	78 68	79 69	86 69	83 68	79 67	80 68	79 67	84 67	84 67	83 67	85 67	86 67	86 67	87 70	87 70	85 66	85 66	86 67	81 69	82 69	82 70	83 70	83 71	80 71	84 72	82.8 68.8	
LIHUE WSO 1020.1 AP	MAX MIN	82 70	83 70	83 69	82 70	79 67	68 68	82 67	82 67	76 67	80 65	77 65	80 63	80 65	81 65	80 63	83 64	84 64	85 67	82 67	82 67	82 67	83 67	82 67	82 67	82 67	82 67	83 67	84 70	85 71	85 71	81.6 66.8	
MANA 1026	MAX MIN	84 61	85 61	86 61	85 60	86 61	82 66	85 63	84 63	85 64	84 60	85 66	84 62	81 63	82 63	82 63	85 63	84 64	85 66	83 70	80 68	81 65	80 64	84 61	81 61	80 60	84 66	83 65	84 66	86 65	87 64	88 66	84.0 63.3
NIU RIDGE 1035	MAX MIN																																
WAIHAI LOWER 1054	MAX MIN	74 64	76 67	76 59	75 58	73 62	72 60	70 61	70 56	77 60	72 59	72 62	76 55	74 58	72 61	71 60	73 54	77 55	78 56	76 59	79 65	78 58	79 56	79 58	78 57	78 59	79 58	75 63	77 61	79 66	79 67	75.5 59.8	
ISLAND OF OAHU																																	
ALOHA STADIUM-HALAWA	MAX MIN	82 68		82 70	82 69	82 70	81 68	79 68		85 68	77 67	72 67	73 65	83 65	83 67	83 68		87 66	88 66	89 67	84 70	81 64				67	83 69	83 69	80 69	82 70			81.9 67.7
B Y U LAIE 903.1	MAX MIN	80 68	81 67	82 69	82 71	81 68	78 70	79 71	78 70	80 72	81 66	80 67	80 68	82 67	81 70	80 70	82 63	82 69	82 65	85 65	85 64	82 64	84 65	81 64	80 64	81 64	81 65	81 65	83 65	83 65	84 65	81.4 66.9	
HONOLULU OBSERV 702.2	MAX MIN	84 69	83 69	86 67	86 69	85 70	84 69	83 65	86 66	84 67	81 65	83 65	83 63	85 62	86 64	84 69	82 63	82 64	84 65	84 68	83 71	82 63	84 65	87 64	85 65	85 64	84 65	82 64	87 67	88 71	89 73	86.0 66.0	
HONOLULU WSO 703 AP	MAX MIN	84 69	85 70	86 70	85 70	83 71	83 70	85 70	84 70	79 70	82 69	82 69	86 66	83 68	83 69	83 69	82 64	84 67	84 68	84 71	82 64	85 65	83 68	85 70	86 65	83 67	86 69	87 70	89 72	87 73	74	84.1 69.4	
KANEHE MAUKA 781	MAX MIN	79 70	77 70	78 70	79 69	78 70	77 68	75 68	75 67	81 68	73 68	75 67	75 68	80 69	77 69	75 66	78 66	79 67	82 67	81 68	79 66	80 65	80 67	80 67	76 65	80 68	76 69	80 71	80 73	80 73	80 73	78.1 68.6	
MANOA LYON ARBORETUM	MAX MIN	78 64	78 65	76 66	79 66	80 64	74 64	80 64	81 65	72 64	69 64	74 64	80 65	80 64	79 65	74 65	78 60	82 62	84 63	85 67	80 62	80 63	78 62	81 61	80 65	82 60	81 65	80 65	76 68	81 68	80 68	78.3 64.3	
OPAEULA 870	MAX MIN	75 66	76 67	76 65	76 74	74 64	75 64	73 63	78 65	78 65	72 66	70 63	70 65	75 62	76 64	76 63	77 63	80 63	79 64	78 65	80 65	79 60	77 62	76 63	76 65	75 64	75 65	79 65	76 66	78 66	79 65	76.1 64.8	
WAIALEE 896.3	MAX MIN	79 68	78 70	80 68		81 61	79 61	79 67	78 69	79 69	75 65	76 66	75 66	79 65	79 68	78 67	78 65	80 65	81 67	81 66	75 67	82 66		79 69	76 69	79 69	78 70	81 70	81 73	82 71		79.0 67.6	
WAIALUA 847	MAX MIN	79 64	80 60	80 60	82 63	81 65	80 63	80 66	80 64	80 63	74 66	78 66	75 62	82 60	81 61	76 61	77 58	77 60	83 61	81 64	85 68	72 61	78 60	79 64	78 61	81 62	82 62	79 64	83 66	83 63		79.6 62.8	
WAIKIKI 717.2	MAX MIN	84 66	83 66	84 68	84 67	84 67	82 67	85 66	85 66	80 66	82 65	80 61	83 61	84 66	81 68	84 66	84 66	85 66	84 66	85 67	82 61	83 63	82 63	83 64	85 64	84 65	85 68	85 69	85 69	86 69		83.3 65.4	
WAIMANALO EXP FARM	MAX MIN	80 68	79 70	81 70	81 70	81 68	79 68	78 68	81 68	75 67	78 66	75 65	78 67	79 67	79 69	79 69	79 63	78 64	84 65	82 66	81 66	79 64	78 62	81 66	79 66	78 66	81 66	79 70	81 69	82 71	81 73	79.5 67.7	
ISLAND OF MOLOKAI																																	
MOLOKAI AP 524	MAX MIN																																
ISLAND OF LANAI																																	
LANAI AIRPORT 656	MAX MIN																																
LANAI CITY 672	MAX MIN			73 63	74 59	73 61	74 59	73 63			73 61	74 61	71 61	75 59	74 63	76 63	75 62	74 60	71 61	78 64	77 65	83 64	78 65	79 59	76 65	75 63	72 61	75 64	75 64	78 67	77 63	75.1 62.3	
ISLAND OF MAUI																																	
HALEAKALA RS 338	MAX MIN	63 43	63 41	58 39	62 41	62 41	57 43	59 41	57 41	58 42	59 44	65 40	60 36	56 36	56 41	59 39	58 39	58 39	58 40	57 43	63 41	62 46	57 44	64 40	64 41	63 40	60 39	62 39	67 40	70 52	65 43	60.7 41.1	
HANA AIRPORT 355	MAX MIN	79 66	78 66	78 68	81 68	80 67	80 66	79 67	77 67	81 67	80 67	80 66	79 66	81 66	81 67	80 66	83 66	82 67	81 66	83 67	77 65	80 68	79 68	80 67	79 68	80 68	80 68	80 72	80 72	81 71		79.9 67.2	
KAAHPALI AP 453.1	MAX MIN	80 63	79 68	80 69	81 69	81 69	81 67	81 67	79 63	81 67	82 64	82 65	81 64	82 64	80 65	80 66	81 65	83 63	83 65	82 66	81 68	83 68	82 68	81 64	80 65	81 65	81 66	83 66	82 67	85 68	83 69	81.3 66.5	
KAHULUI WSO 398 AP	MAX MIN	82 70	83 70	84 70	84 70	84 70	83 70	81 64	85 65	83 69	85 71	85 68	88 63	85 70	88 66	85 66	83 64	85 65	89 64	86 69	86 69	88 61	85 66	88 71	80 70	83 70	83 71	84 71	86 73	87 71	86 72	84.7 68.3	
KAILUA 446	MAX MIN		75 67		74 64	75 67	76 66	74 65			77 67	77 68	75 66	77 66	75 66		77 61	78 63	79 68	79 65	79 68					78 65	75 65	77 65	76 65	77 67			
KEAWAKAPU BEACH 260.2	MAX MIN	85 66	85 66	85 68	87 60	86 61	85 60	88 64	81 65	85 61	86 61	86 62	85 61	85 62	86 65	86 65	84 62	88 65	88 65	87 67	84 73	85 69	81 61	88 65	88 64	85 65	84 63	84 64	85 65	87 66	86 67	87 67	85.5 63.7
KULA SANATORIUM 267	MAX MIN	72 55	70 54	71 54	73 53	72 53	70 54	71 55	68 56	71 56	72 54	70 54	69 54	69 53	70 54	67 56	72 57	69 57	71 58	71 54	65 53	71 54	65 55	72 56	71 55	68 55	68 55	71 56	73 57	73 60	67 58	70.3 55.3	

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# DAILY TEMPERATURES

HAWAII AND PACIFIC  
APRIL 1978

STATION		DAY OF MONTH																															AVERAGE
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
HAWAII																																	
LAHAINA 361	MAX MIN	87 69	88 69	86 67	85 64	86 63	84 65	85 66	85 69	88 67	87 67	85 66	85 63	85 65	86 64	85 67	85 67	86 67	85 67	86 69	86 73	86 66	87 69	87 66	85 69	85 65	84 66	86 66	88 67	87 72	87 72	85.9 67.1	
WAILUKU 386	MAX MIN			79 67	79 68	79 68	79 67	79 68			80 65	79 68	78 67	79 68	79 68			83 64	81 65	82 68	82 69	86 68			86 65	78 68	79 70	80 70	80 71				
ISLAND OF HAWAII																																	
HAWAII VOLCNS NP HQ 54	MAX MIN	62 51	65 52	65 50	65 49	64 49	65 50	66 53	64 48	69 50		68			68 50	69 51	50		69 46	68 54	70 53	71 55	73 54	74 51	72 55	71 53	66 54	70 55	69 52	70 55	72 55	67 55	68.2 51.9
HILO WSO AP 87	MAX MIN	81 65	82 65	82 65	82 66	82 65	78 67	79 67	83 62	82 62	81 65	82 62	83 64	82 63	81 67	79 64		83 63	86 63	83 66	88 68	89 70	82 67	82 65	82 66	80 68	81 69	83 69	83 69	85 70	84 67	82 69	82.4 65.9
KAINALIU 73.2	MAX MIN	76 60	75 58	75 61	75 60	74 58	78 57	76 60	80 59	75 57	78 58	78 57	77 57	78 58	75 59	77 59		74 58	80 58	79 61	78 60	78 60	82 61	80 60	78 57	78 59	78 59	75 60	82 62	80 62	81 64	77.6 59.3	
KAMUELA 192.2	MAX MIN			70 56	68 56	66 55	68 55	68 55			75 49	69 55	71 49	74 56	73 61			76 48	78 54	76 60	73 60	78 60			77 55	73 57	75 58	73 54					
KAPOHO BEACH 93.11	MAX MIN	80 67	83 70	83 70	83 69	83 70	83 66	81 67	82 63	86 65	82 68	83 66	83 65	85 64	86 68	85 66		87 64	88 67	81 67	80 69	83 73	83 68	84 67	84 67	83 68	83 68	84 69	84 69	85 70	85 71	83.5 67.6	
KEARU 92	MAX MIN			79 63	78 62	78 62	79 62	75 63			79 61	80 61	80 60	81 62				80 61	84 62	81 65	86 65	85 64				82 64	76 65	79 65	80 66	80 67			
KOHALA MISSION 175.1	MAX MIN		76 64	77 66	76 68	76 67	76 64	75 65	74 61	79 64	78 65	80 63	78 63	79 63	79 66	78 66		79 62	80 62	82 63	82 66	82 67	82 68	82 66	80 65	79 65	78 64	80 64	80 64	79 67	78 68	80 66	78.8 64.9
KONA (KAILUA) 68.3	MAX MIN			83 68	83 66	81 68	81 67	81 68			84 66	83 69	83 68	83 69	81 69			83 68	83 69	84 68	85 69	85 71				85 68	83 69	84 73	85 70				
KULANI CAMP 79	MAX MIN	53 45	50 45	60 45	59 42	58 44	60 43	58 49	64 44	63 46	62 52	62 41	61 44	63 49	62 52	60 43		61 41	64 52	65 48	63 42	68 50	70 43	70 43	65 41	61 47	61 52	62 51	67 47	63 41	65 45	62 42	62.4 45.6
MAUNA LOA SLOPE 085	MAX MIN	51 32	52 31	55 33	52 34	52 33	52 32	49 33	44 29	47 30	52 32	50 34	51 32	48 30	46 32	42 33		41 31	43 31	47 30	51 30	56 36	52 37	53 38	52 34	53 36	50 34	52 35	52 35	54 33	56 37	56 37	50.4 33.1
MOUNTAIN VIEW 91	MAX MIN			74 58	75 59	75 59	76 55	68 59			78 55	76 55	77 55	77 56				77 55	79 60	76 63	80 62	79 60			79 62	73 62	77 62	76 61	77 61				
NAALEHU 14	MAX MIN	74 62	75 62	79 63	78 63	78 62	79 63	76 64	72 60	73 59	78 58	78 60	78 60	77 63	78 63	73 62		74 61	78 62	79 64	78 65	79 63	80 63	86 61	74 58	75 60	77 61	79 62	80 63	82 64	76 67	74 65	77.2 62.1
OOKALA 223	MAX MIN	72 64	77 64	78 67	76 65	74 65	77 63	75 64	74 62	78 62	78 65	78 64	78 65	78 65	78 64	78 65		78 64	79 64	81 64	77 64	81 66	79 67	77 67	80 66	76 65	78 65	79 65	79 66	80 67	79.8 65.0		
OPIHIHALE 2 24.1	MAX MIN	77 58	75 60	78 61	77 57	76 57	77 57	77 58	82 58	78 58	73 58	77 58	78 61	80 57	78 59	75 57		80 59	81 61	76 60	80 62	87 62	80 62	80 62	78 58	79 60	80 60	79 60	82 61	82 61	75 65	78.6 59.7	
PAHALA 21	MAX MIN			80 59	81 59	80 60	81 61	81 64			80 59	82 58	81 60	78 61	80 60			79 59	80 62	80 64	80 64	80 64				81 61	79 62	81 64	81 64	83 64			
PUUKOHOLA HEIRU 98.1	MAX MIN	88 59	89 66	88 59	89 64	88 64	86 66	89 66	84 65	88 66	89 65	87 64	89 65	82 65	87 66			88 65	85 66	85 67	90 68	86 69	86 68	86 67	85 65	83 65	88 69	88 69	89 68	92 70	89 68	89 63	87.3 65.8
SOUTH KONA 2.31	MAX MIN	75 58	74 59	74 59	75 55	75 56	76 54	74 57	74 54	77 55	75 51	76 53	78 56	77 57	76 54	77 57		75 56	79 53	77 58	75 60	77 61	78 58	83 56	79 55	78 55	79 55	76 55	78 56	80 54	80 49	82 45	77.0 55.4
UPOLU POINT USCG 159.2	MAX MIN	81 65	79 64	80 67	82 70	81 70	81 66	81 66	80 65	82 69	82 67	82 66	82 67	82 65	83 64	82 69		83 69	84 67	83 68	86 70	86 68	85 70	83 69	83 68	83 67	83 66	83 69	83 71	83 68	83 69	82.5 67.5	

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# DAILY TEMPERATURES

HAWAII AND PACIFIC  
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STATION		DAY OF MONTH																															AVERAGE	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
PACIFIC																																		
■ ■ ■																																		
EAST OF 180TH MERIDIAN																																		
CANTON ISLAND	MAX MIN	91 82		90 79	91 80	91 79	91 80	91 80	90 77		89 78	90 75	90 77	89 78	89 77	90 71		91 81	90 80	90 81	90 81	90 81	91 81		90 79	90 77	90 70	90 76	89 76	90 79		90.1 78.2		
JOHNSTON IS WSO AP	MAX MIN	81 76	81 73	80 74	81 76	82 74	80 74	79 73	81 75		81 74	81 72	82 76	82 76	82 74	82 75		82 75	82 75	82 75	83 76	83 77	83 72		82 76	81 76	82 74	82 76	82 74	82 76	82 77	81.6 74.9		
LEONE	MAX MIN	89 82	86 80	92 82	91 86	92 82	90 85	89 84	87 80	90 82		91 75	88 78	91 75	87 83	89 82	91 82		90 82	92 86	93 84		90 85	91 83	89 81		87 83	89 83	89 81	89 81	86 80	88 83	84 81	89.1 81.8
FRENCH FRIGATE SHOALS	MAX MIN																																	
MIDWAY SAND ISLAND	MAX MIN	74 60	77 67	78 68	78 68	78 63	63 56	65 58	68 58	69 62		72 67	74 67	70 61	70 61	73 63	73 64		71 63	68 61	67 60	69 61		70 61	72 66	73 62	73 65	76 62	79 66	80 67	80 61	68 58	72.1 62.5	
PAGO PAGO WSO AP	MAX MIN	85 70	85 75	87 78	88 75	85 74	85 74	86 80	87 80	87 79		81 73	85 73	86 74	85 73	89 74		86 72	87 71	89 73	90 73	86 73	86 76		86 79	87 76	87 80	86 75	87 73	84 76	84 70	84 74	85.9 74.7	
■ ■ ■																																		
WESTERN PACIFIC ISL. NORTH OF 12 N																																		
ANDERSEN AFB GUAM	MAX MIN	82 74	82 76	84 76	79 75	80 75	83 75	82 74	83 75	82 75		81 76	82 76	81 76	81 77	81 77		84 77	83 77	83 77	82 75	82 77	84 76		82 74	82 75	83 74	82 77	82 77	83 78	84 77	83 77	82.2 75.9	
CLARK AFB LUZON	MAX MIN	93 75	95 77	91 77	91 73	97 75	97 75	91 73	95 73	93 75		95 72	97 77	95 75	93 75	93 75		95 75	95 75	97 77	97 77	93 77	84 75		93 75	95 77	93 75	95 77	93 73	90 75	93 75	95 77	93.7 75.2	
GUAM NAS	MAX MIN	85 77	87 75	88 76	84 77	88 76	85 77	86 75	86 78	87 78		85 77	87 76	85 77	87 76	88 78		85 79	86 78	86 77	86 76	87 75	87 78		87 78	87 77	87 78	87 77	87 77	88 77	89 78	86 78	86.6 77.0	
GUAM WSMO	MAX MIN	87 65	86 70	89 74	82 74	86 73	86 73	86 72	86 73	86 74		85 74	86 75	85 74	84 75	85 73	85 76		87 76	87 69	87 77	87 72	86 75	87 73		87 75	86 74	86 75	88 74	87 73	89 71	89 72	86.5 73.1	
SAIPAN LORAN	MAX MIN																																	
WAKE ISLAND WSO AP	MAX MIN	85 74	85 74	85 75	86 75	86 75	87 74	82 70	84 72	85 75		85 75	85 76	85 76	85 77	85 78		85 75	78 69	81 71	82 74	85 74	84 73		84 73	84 74	84 74	85 74	85 74	86 74	86 74	85 73	84.5 74.0	
■ ■ ■																																		
CAROLINE AND MARSHALL ISLANDS																																		
ENWETAK	MAX MIN																																	
FALALOP I ULITHI ATOLL	MAX MIN																																	
KAPINGAMARANGI ATOLL	MAX MIN																																	
KOROR WSO	MAX MIN	88 74	88 75	87 74	85 74	86 76	88 77	90 74	88 74	89 78		89 75	89 75	89 77	90 76	90 76	89 74		88 76	86 72	86 76	87 78	89 76	89 77		87 75	87 74	88 77	89 77	89 75	89 77	89 75	88.2 75.6	
KWAJALEIN MISSILE RGN	MAX MIN	85 77	87 80	87 80	87 79	87 78	87 76	88 80	87 79	87 78		87 79	87 79	87 80	87 80	87 79		87 78	82 74	81 73	84 77	86 79	88 77		87 78	87 77	86 75	87 75	87 78	87 78	85 76	86.4 77.6		
LELE I KOSRAE	MAX MIN																																	
MAJURO WSO AP	MAX MIN	87 76	86 76	88 78	87 77	86 79	86 76	85 75	86 76	87 78		83 73	87 73	85 75	85 78	86 78		86 74	85 74	82 74	86 75	86 75	88 76		87 75	87 76	88 76	88 75	88 75	84 73	87 75	86.0 75.7		
METALANIM	MAX MIN	83 75	87 75	88 79	87 78	87 79	87 80	87 80	84 79	84 74		84 75	87 74	88 73	88 74	88 75		89 73	85 73	86 79	83 74		86 72		87 75	83 75	85 79	87 74	88 74	85 76	87 73	84 75	86.1 75.6	
PONAPE WSO	MAX MIN	84 75	89 73	90 77	89 79	89 79	88 79	89 78	89 78	82 74		89 73	88 73	89 72	89 74	90 73		91 75	87 73	87 76	83 75	90 75	88 74		89 76	85 74	85 73	90 72	89 74	87 74	88 75	88.0 74.8		
SATAWAN ATOLL	MAX MIN																																	
TRUK MOEN I. WSO AP	MAX MIN	87 76	88 78	89 79	89 76	88 74	88 79	89 80	88 79	88 78		88 78	83 76	87 77	84 77	89 74	88 76		85 77	88 76	87 79	87 76	85 76		88 74	88 76	88 76	88 76	88 77	88 78	85 77	87.3 76.9		
WOLEAI ATOLL	MAX MIN	90 76	90 80	89 85	89 75	90 75	90 77	90 78	90 74	88 75		90 77	90 78	91 76	89 75	86 72	85 73		85 73	88 73	85 73	84 74	88 75		87 76	89 74	89 76	91 76	90 72	90 74	90 75	88.7 75.0		
YAP WSO AP	MAX MIN	89 72	89 72	88 76	87 74	90 77	89 76	89 77	89 76	89 76		89 76	89 72	88 72	88 76	90 78		89 76	86 70	87 70	86 75	88 74	89 76		89 75	87 73	88 75	88 76	88 75	89 75	89 74	88.4 74.8		

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# EVAPORATION AND WIND

HAWAII AND PACIFIC  
APRIL 1978

STATION		DAY OF MONTH																															TOTAL OR AVG.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
HAWAII																																	
* * * ISLAND OF KAUAI																																	
LIHUE WSO 1020.1 AP		EVAP	.34	.44	.46	.45	.42	.26	.41	.23	.34	.25	.18	.20	.29	.30	.22	.14	.28	.24	.25	.18	.30	.51	.43	.42	.40	.29	.36	.34	.29	9.52	
	WIND	281	291	291	305	284	274	252	110	190	213	205	184	114	172	227	99	90	106	96	122	94	111	103	154	133	156	196	191	195	128	5367	
	MAX	75	80	80	81	81	81	81	83	82	73	77	74	83	83	78	79	79	84	85	83	84	84	86	82	82	83	82	81	83	87	81.3	
	MIN	62	62	61	60	62	62	59	60	61	60	60	58	59	60	61	57	58	58	58	63	58	59	58	60	61	61	62	64	64	65	60.4	
* * * ISLAND OF OAHU																																	
HONOLULU OBSERV 702.2		EVAP	.45	.37	.45	.39	.45	.43	.44	.34	.37	.16	.25	.20	.37	.15	.45	.17	.40	.43	.30	.23	.17	.30	.27	.30	.30	.15	.17	.30	.45	.41	9.62
	WIND	48	49	49	57	57	57	38	39	35	37	33	34	31	38	34	24	32	32	31	63	43	31	40	38	26	24	28	29	33	34	1144	
	MAX	85	83	87	88	86	85	85	88	88	85	89	85	89	85	84	79	92	92	94	87	78	89	90	91	90	83	82	90	94	92	87.2	
	MIN	65	69	64	63	64	64	65	65	66	66	66	64	63	63	64	64	63	64	64	64	63	65	66	65	64	65	64	65	67	68	68	64.8

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# EVAPORATION AND WIND

HAWAII AND PACIFIC  
APRIL 1978

STATION	DAY OF MONTH																															TOTAL OR AVG.
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
PACIFIC																																
• • • EAST OF 180TH MERIDIAN																																
JOHNSTON IS WSO AP	EVAP	.31	-	-	-	-	-	-	.36	.36	-	.47	.56	.46	.43	.43	.47	.38	.34	.40	.46	.26	.30	.33	.36	.39	.24	.51	.32	-	-	-
	WIND	238	230	425	241	227	225	165	175	186	227	204	192	167	183	146	163	135	96	115	135	125	130	180	200	146	183	232	231	215	210	-
	MAX	85	80	83	83	84	80	83	82	82	85	85	86	87	85	88	88	89	90	86	90	87	85	88	85	88	85	87	84	84	86	5729
	MIN	67	67	67	68	67	67	67	66	68	68	67	66	67	67	67	67	68	67	69	69	70	69	68	68	68	-	72	-	-	-	85.3
• • • WESTERN PACIFIC ISL. NORTH OF 12 N																																
GUAM WSMO	EVAP	.26	.32	.36	.16	.23	.27	.25	.22	.19	.17	.21	.17	.16	.33	.48	.41	.24	.15	.25	.32	.25	.31	.24	.33	.17	.30	.23	.21	.30	.23	7.72
	WIND	82	112	153	122	149	194	181	151	150	136	132	114	124	108	174	237	225	211	151	153	153	160	126	132	121	102	60	40	93	105	4151
	MAX	93	89	93	86	88	88	92	89	88	88	92	87	88	90	91	89	89	91	90	93	92	92	93	92	94	94	96	93	94	90	90.8
	MIN	68	69	71	73	72	71	72	72	72	72	71	71	71	71	72	72	72	71	71	72	72	73	72	72	72	71	73	74	72	71	71.6

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								TEMP.	PRECIP.	EVAP.	SPECIAL (SEE NOTES)	
HAWAII												
ISLAND OF KAUAI												
ALEXANDER RESV. 983	D14D	D2	KOLDA	2	21 57	159 32	1610				C	MC8RYOE SUGAR CO.
ANAHOLA 1114	A D14S	D1	KAWAIHAU	1	22 08	159 18	180		7A		C	LIHUE PLANTATION CO
BRYDESWOOD STA 985	A D24D	D2	KOLDA	2	21 56	159 32	720		7A			MC 8RYOE SUG CO LTD
EAST LAWA 934	A 0456	D2	KOLDA	2	21 55	159 30	440		7A			MC 8RYOE SUG CO LTD
ELEEE 927	A D47D	D2	KOLDA	2	21 54	159 35	150		6A			MC 8RYOE SUG CO LTD
HALAULA 1110	A D93S	D1	KAWAIHAU	1	22 07	159 19	253		7A			LIHUE PLTN CO LTD
HALENANAH 1006	A 1038	D2	LIHUE	2	21 58	159 26	490		8A			LIHUE PLANTATION CO
HANAHANAPUNI 1055.2	114D	D2	KAUAI	2	22 03	159 25	600				C	LIHUE PLANTATION CO LTD
HANAHEI TUNNEL 1053	A 117D	D1	KAWAIHAU	1	22 05	159 28	1218		MD			US GEOLOGICAL SURVEY
HUKIPD 945	2161	D3	WAIIMEA	3	21 59	159 41	800		8A			KEKAHA SUGAR CO LTD
ILIILILUA INTAKE 105D	A 2222	D2	LIHUE	2	22 02	159 28	1050		VAR			LIHUE PLTN CO LTD
INTAKE WAINIHA PC 1086A	2227	D1	HANAHEI	1	22 09	159 34	690		WI			MC 8RYOE SUG CO LTD
KANALOHULUHULU 1075	3099	D3	WAIIMEA	3	22 08	159 40	3600	7A	7A		C	STATE DIVISION OF PARKS
KANEHA RESERVOIR 1092	A 3104	D1	KAWAIHAU	1	22 08	159 23	830		7A			LIHUE PLANTATION
KAPPA STABLES 1104	A 3159	D1	KAWAIHAU	1	22 05	159 20	175		7A		C	LIHUE PLTN CO LTD
KEALIA 1112	A 3982	D1	KAWAIHAU	1	22 06	159 19	9		7A			LIHUE PLTN CO LTD
KEKAHA 944	4272	D3	WAIIMEA	3	21 58	159 43	9		8A		C	KEKAHA SUGAR CO LTD
KILAUEA 1134	A 4561	D1	HANAHEI	1	22 13	159 25	320		7A		C	NICK RAPDZO
KILAUEA POINT 1133	4568	D1	HANAHEI	1	22 14	159 24	180	7A	7A			MRS ELIZABETH MACIOLEK
KOLO 1033	4735	D3	WAIIMEA	3	22 04	159 46	36		7A			KEKAHA SUGAR CO LTD
KOLDA 936	A 4742	D2	KOLDA	2	21 55	159 28	240		8A			MC8RYOE SUGAR CO
KOLDA LN (MAK) 940.1	4748	D1	KAUAI	2	21 52	159 27	52	7A	7A			AUSCG LORAN STATION
KOLDA MAUKA 994	A 475D	D2	KOLDA	2	21 57	159 29	640		7A			MC8RYOE SUGAR COMPANY
KUKUIULA 935	A 495D	D2	KOLDA	2	21 54	159 30	100		6A			MC BRYOE SUG CO LTD
LIHUE VARIETY ST 10621A	5560	D2	LIHUE	2	22 01	159 23	380		7A			LIHUE PLANTATION CO LTD
LIHUE 1020	A 5575	D2	LIHUE	2	21 59	159 22	207		7A			LIHUE PLTN CO LTD
LIHUE WSO 1020.1 AP	R 558D	D2	LIHUE	2	21 59	159 21	103	M1D	M1D	7A	J	NATL WEATHER SERVICE
MAKAWELI 965	A 5864	D3	WAIIMEA	3	21 55	159 38	140		7A			DLOKELE SUGAR CO
MANA 1026	6082	D3	WAIIMEA	3	22 02	159 46	20	8A	8A			KEKAHA SUGAR CO LTD
MOHIHI UPR CROSS 1083	A 6433	D1	WAIIMEA	3	22 07	159 36	3500		M1D			U S GEO SURVEY
MOLDAA 1145	A 6529	D1	KAWAIHAU	1	22 11	159 20	330		7A			THEODORE JAVELLANA JR
MDUNT WAIKALEALE 1047	R 6565	D3	WAIIMEA	2	22 04	159 30	5148		M1D			U. S. GEO. SURVEY
NIU RIDGE 1035	685D	D3	WAIIMEA	3	22 02	159 44	1250	6A	6A			KEKAHA SUGAR CO LTD
N WAILUA DITCH 1051	A 6888	D2	LIHUE	2	22 04	159 28	1110		7A			LIHUE PLTN CO LTD
N WAILUA RIVER 1055	A 6893	D2	KIHUE	2	22 04	159 26	650		MZ			LIHUE PLTN CO LTD
PH WAINIHA 1115	8155	D1	HANAHEI	1	22 12	159 34	101		6A			MC BRYOE SUG CO LTD
PRINCEVILLE RANCH 1117	8165	D1	HANAHEI	1	22 13	159 29	295		9A			PRINCEVILLE RANCH INC
PUEHU RIDGE 1040	8205	D3	WAIIMEA	3	22 01	159 42	1660		8A			KEKAHA SUGAR CO LTD
PUHI 1013	A 8217	D2	LIHUE	2	21 58	159 24	329		8A			LIHUE PLANTATION CO
WAIKAWA 930	A 8941	D2	KOLDA	2	21 54	159 34	215		7A			MC 8RYOE SUG CO LTD
WAIKAWA LOWER 1054	8958	D2	LIHUE	2	22 01	159 27	565	6A	6A			LIHUE PLTN CO LTD
WAIKAWA UPPER 1052	8966	D2	LIHUE	2	22 01	159 28	780		6A			LIHUE PLTN CO LTD
WAIKAWA 943	9253	D3	WAIIMEA	3	21 59	159 43	10		8A			KEKAHA SUGAR CO LTD
WAILUA KAI 1065	A 9467	D2	LIHUE	2	22 02	159 21	50		7A			LIHUE PLANTATION
WAIIMEA 947	9629	D3	WAIIMEA	3	21 58	159 41	20		8A			KEKAHA SUGAR CO.
WEST LAWA 931	A 9955	D2	KOLDA	2	21 54	159 31	210		6A			MC 8RYOE SUG CO LTD
ISLAND OF OAHU												
AHUIMANU LDDP 839.12	D05S	D1	KODLAUPDKO	1	21 26	157 51	320					DON MITCHELL
ALOHA STADIUM-HALAWA	D172	D3	OAHU	3	21 23	157 56	40	8A	8A			ALOHA STADIUM
BERETANIA PUMPING STA	0211	D2	HONOLULU	2	21 19	157 51	20		9A			BOARD OF WTR SUPPLY
8 Y U LAIE 903.1	D24D	D1	KODLAUPDKO	1	21 39	157 56	20	12M	12M			8 Y U-HAWAII CAMPUS
CAMPBELL 1ND PK 702.5	0248	D2	OAHU	3	21 19	158 07	10		8A			CHEVRON U S A INC
CAMP 84 807	A D30D	D3	EWA	3	21 26	158 04	760		6A			OEL MONTE CORPORATION
COCONUT ISLAND 840.1	D35D	D1	KODLAUPDKO	1	21 26	157 47	15		8A			H INST MARINE BIOLOGY
DOWSETT HIGHLDS 780.8	D438	D2	HONOLULU	2	21 21	157 50	565					J.L. BANNING
EWA PLANTATION 741	0507	D3	EWA	3	21 21	158 02	5		7A			DAHU SUGAR COMPANY
HALAWA SHAFT 771.2	D964	D2	HONOLULU	2	21 23	157 54	170					BOARD OF WATER SUPPLY
HAWAII KAI CRSE 724.19	1308	D2	OAHU	2	21 18	157 39	21					HAWAII KAI GOLF COURSE
HELEMAN INTAKE 881	A 1384	D5	WAILUA	5	21 33	158 00	1274		WI			WAILUA SUGAR CO. INC.
HOKULDA 725.2	A 154D	D3	EWA	3	21 24	158 06	2260					WILLIAM M KIRKPATRICK
HONOLULU OBSERV 702.2	1918	D3	EWA	3	21 19	158 00	5	9A	9A	9A	J	NATIONAL WEATHER SERV
HONOLULU WSD 703 AP	1919	D2	HONOLULU	2	21 20	157 55	7	M1D	M1D			NATL WEATHER SERVICE
KAENA POINT 841.3	2410	D4	WAILUA	4	21 34	158 15	1240		9A			U S AIR FORCE
KAHANA 883	A 2462	D1	KODLAULDA	1	21 31	157 54	800		WI			WAIKAWA WTR CO LTD
KAHUKU 912	A 2570	D1	KODLAULDA	1	21 42	157 59	15				C	KIULIMA HOTEL

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								TEMP.	PRECIP.	EVAP.	SPECIAL (SEE NOTES)	
ISLAND OF OAHU												
KAILUA FIRE STA 791.3	2683	01	KOOLAUPOKO	1	21 24	157 45	10		8A		C	KAILUA FIRE STATION
KALIHI RES SITE 777	R 2960	02	HONOLULU	2	21 23	157 50	910		M10			BOARD OF WTR SUPPLY
KANEOME MAUKA 781	3113	01	KOOLAUPOKO	1	21 25	157 49	325	7A	7A			STATE HOSPITAL
KAPALAMA 773	A 3268	02	HONOLULU	2	21 21	157 52	614		8A			KAMEHAMEHA SCHOOLS
KAWAIHAPAI 841	A 3734	05	WAIALUA	5	21 35	158 11	40		7A			WAIALUA SUGAR CO. INC.
KEMOO CAMP 8 855	A 4318	05	WAIALUA	5	21 33	158 05	725		7A			WAIALUA SUGAR CO. INC.
KOOLAU DAM 833	A 4766	05	WAIHAWA	5	21 30	157 58	1160		8A			US ARMY SCHOFIELD BRKS
LULUKU 781.7	5655	01	KOOLAUPOKO	1	21 24	157 49	240				C	NATIONAL WEATHER SERV
MAKAHA PUMP 800.2	A 5782	04	OAHU	4	21 29	158 12	400		8A		C	CAPITAL INVESTMENT CO
MAKAKILO 730.1	5789	03	OAHU	3	21 21	158 06	300		6A			NEAL ADAMS
MANOA 712.1	6122	02	HONOLULU	2	21 19	157 49	220		7A			CHARLES COOKE
MANOA LYON ARBORETUM	6128	02	OAHU	2	21 20	157 48	500	8A	8A			LYON ARBORETUM
MANOA TUNNEL 2 716	R 6130	02	HONOLULU	2	21 20	157 48	650		M10			BOARD OF WTR SUPPLY
MAUNAWILI 787.1	6222	01	KOOLAUPOKO	1	21 21	157 46	395				C	EXP STN H 5 P A
MOANALUA 770	6395	02	HONOLULU	2	21 21	157 54	20		9A			JOHN A ROXBURGH
MOUNT KAALA 844	6553	04	WAIANAE	4	21 31	158 09	4015				C	FEDERAL AVIATION ADM
NUUANU RES 4 783	6928	02	HONOLULU	2	21 21	157 49	1048		M10			BOARD OF WTR SUPPLY
NUUANU RESERV 5 775	A 6933	02	HONOLULU	2	21 21	157 50	410		W1			BOARD OF WTR SUPPLY
OPAEULA 870	A 7150	05	WAIALUA	5	21 34	158 02	1060	7A	7A		C	WAIALUA SUGAR CO. INC.
PAIKO DR 723.4	7540	02	HONOLULU	2	21 17	157 44	10		6P			O L GRUBB
PALI GOLF COURSE 788.1	7656	01	OAHU	1	21 23	157 47	480		10A			CC OEPT PKS RECREATION
PALOLO VALLEY 718	R 7664	02	HONOLULU	2	21 20	157 46	995		M10			BOARD OF WTR SUPPLY
PAUOA FLATS 784	R 7810	02	HONOLULU	2	21 21	157 48	1640		M10			BOARD OF WTR SUPPLY
PEARL COUNTRY CL 760.2	7942	03	OAHU	3	21 23	157 56	120				C	PEARL COUNTRY CLB OF HA
PUNALUU PUMP 905.2	8314	01	KOOLAULO	1	21 35	157 54	20				C	MRS OAVIO DELAO
PUNCHBOWL CRATER 709	A 8316	02	HONOLULU	2	21 19	157 51	360		8A			NAT MEM CEMETERY
PUPUKA HEIGHTS 896.4	8342	01	WAIALUA	1	21 39	158 02	900				C	JACK N. WHEELER
PUU MANAWAUA 725.6	8500	03	OAHU	3	21 23	158 06	1690		8A			HUGH HAMILTON
TANTALUS 2 780.5	8738	02	HONOLULU	2	21 20	157 50	1325		7A			R. E. WHITE
UNIV OF HAWAII 713	A 8815	02	HONOLULU	2	21 18	157 49	79		8A			UNIVERSITY OF HAWAII
WAIHAWA DAM 863	A 8945	05	WAIHAWA	5	21 30	158 03	854		7A		C	WAIALUA SUGAR CO. INC.
WAIHOLE 837	A 8964	01	KOOLAUPOKO	1	21 28	157 53	745		8A		C	WAIHOLE WTR CO LTO
WAIALAE KAHALA 715	9185	02	HONOLULU	2	21 17	157 47	40		7A			SPENCER TINKER
WAIALEE 896.3	9190	01	KOOLAULO	1	21 41	158 02	33	8A	8A			WAIALEE LIVESK RES FARM
WAIALUA 847	A 9195	05	WAIALUA	5	21 35	158 07	32	7A	7A		C	WAIALUA SUGAR CO. INC.
WAIANAE 798.2	A 9231	04	WAIANAE	4	21 27	158 11	10		7A			BEN MAYES
WAIHAWA 836	A 9261	03	EWA	3	21 28	157 56	800		M0			WAIHOLE WTR CO LTO
WAIKANE 885	A 9340	01	KOOLAUPOKO	1	21 30	157 53	760		W1			WAIHOLE WTR CO LTO
WAIKIKI 717.2	9397	02	HONOLULU	2	21 16	157 49	10	8A	8A			HONOLULU ZOO
WAILUPE VLY SCH 723.6	9500	02	HONOLULU	2	21 18	157 45	180				C	WAILUPE VALLEY SCHOOL
WAIMANALO EXP FARM	9523	01	KOOLAUPOKO	1	21 20	157 43	60	7A	7A			WAIMANALO EXP FARM
WAIMANALO NONOKI 795.2	9534	01	OAHU	1	21 20	157 43	120				C	WAIMANALO EXP FARM
WAIMEA 892	A 9593	05	WAIALUA	5	21 38	158 04	330		7A		C	WAIALUA SUGAR CO INC
WAIPIHU 750	A 9738	03	EWA	3	21 23	158 01	59		8A			WAIHOLE WATER COMPANY
WILHELMINA RISE 721	R 9980	02	HONOLULU	2	21 18	157 47	1100		M10			BOARD OF WTR SUPPLY
ISLAND OF MOLOKAI												
KALAUPAPA 563	A 2896	01	MOLOKAI	1	21 12	156 59	30		8A			KALAUPAPA SETTLEMENT
KAUNAKAKAI 536	3541	01	MOLOKAI	1	21 06	157 01	12		7A			MOLOKAI RANCH LTO
KAUNAKAKAI MAUKA 536.5	3547	01	MOLOKAI	1	21 06	157 01	70				C	MOLOKAI GENERAL HOSP.
KEONELELE PENS 551	A 4394	01	MOLOKAI	1	21 12	157 12	560		VAR			MOLOKAI RANCH. LTO.
KUALAPUU 534	A 4778	01	MOLOKAI	1	21 09	157 02	825				C	OEL MONTE CORPORATION
MAUNALO 511	A 6190	01	MOLOKAI	1	21 08	157 13	1070				C	MOLOKAI RANCH COMPANY
MOLOKAI AP 524	6534	01	MOLOKAI	1	21 09	157 06	450	8A	8A			ALOHA AIRLINES
PUU O HOKU RANCH 542.1	8549	01	MOLOKAI	1	21 09	156 44	700				C	CHARLIE APIA (FOREMAN)
WAIKOLU 540	A 9404	01	MOLOKAI	1	21 08	156 55	3550		W1			MOLOKAI RANCH LTO
ISLAND OF LANAI												
KANEPUU 690	A 3130	01	LAHAINA	1	20 52	157 00	1650		W1			U S O A
KAUNALAPUU HARBOR 658	3461	01	LAHAINA	1	20 47	157 00	30		8A		C	OOLE COMPANY
LANAI AIRPORT 656	5275	01	LAHAINA	1	20 48	156 57	1300	8A	8A			HAWAIIAN AIR
LANAI CITY 672	A 5286	01	LAHAINA	1	20 50	156 55	1620	7A	7A		C	OOLE COMPANY
LANAIHALE 684	A 5301	01	LAHAINA	1	20 49	156 53	3370		W1			U S O A
MAHANA 694	A 5704	01	LAHAINA	1	20 52	156 55	1430		M0			U S O A
MALAEUA 676	A 6012	01	LAHAINA	1	20 46	156 55	1150		W1			KOELE COMPANY
WAIAKEAKUA 685	A 9021	01	LAHAINA	1	20 47	156 52	2000		WM			KOELE COMPANY
ISLAND OF MAUI												
AUWAHI 252	A 0175	02	HANA	2	20 37	156 29	2060	VAR				ULUPALAKUA RANCH



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								TEMP.	PRECIP.	EVAP.	SPECIAL (SEE NOTES)	
ISLAND OF MAUI												
FIELO 46 474	0541	04	LAHAINA	4	20 59	156 38	1050				C	MAUI LANO-PINEAPPLE CO
HAELAAU 477	A 0790	04	LAHAINA	4	20 57	156 36	2980		MO			MAUI LANO-PINEAPPLE CO
HALEAKALA 8 E S 434	A 0995	01	MAKAWAO	1	20 51	156 18	2100		7A			U OF H AGRIC EXP STA
HALEAKALA RANCH 432	A 0999	01	MAKAWAO	1	20 50	156 19	1850		8A			HALEAKALA RANCH CO
HALEAKALA RS 338	1004	02	MAKAWAO	2	20 46	156 15	7030	8A	8A			HALEAKALA NAT PARK
HALIIMAILE 423	A 1075	01	MAKAWAO	1	20 52	156 21	1070		3A			MAUI LANO-PINEAPPLE CO
HAMAKUPOKO 485	1086	01	MAKAWAO	1	20 55	156 21	320		5A			HAWAIIAN COM & SUG CO
HANA 354	A 1122	01	HANA	1	20 45	155 59	120		8A		C	HARRY HASEGAWA
HANA AIRPORT 355	1125	01	HANA	1	20 48	156 01	61	8A	8A			ROYAL HAWAIIAN AIRLINES
HOLUA CABIN 259.5	A 1552	02	MAKAWAO	2	20 45	156 13	6930		MO			HALEAKALA NATL PARK RGS
HONOKOHU 480	A 1882	04	LAHAINA	4	20 58	156 36	870		MO			MAUI LANO-PINEAPPLE CO
HONOKOHU 493	A 1887	04	LAHAINA	4	21 00	156 39	135		6A			MAUI LANO-PINEAPPLE CO
HONDOLUA FIELO 49 494	A 1914	04	LAHAINA	4	21 01	156 38	125		MO			MAUI LANO-PINEAPPLE CO
HONOMANU GULCH 341	A 1935	01	MAKAWAO	1	20 47	156 14	6280		MO			HALEAKALA RANCH CO
KAAHAPALI AP 453.1	2307	04	LAHAINA	4	20 56	156 42	8	8A	8A			AMFAC PROPERTIES INC
KAHAKULOA MAUKA 482.3	2453	03	WAILUKU	4	20 59	156 33	650				C	EDWARD CHANG
KAHOMA INTAKE 374	A 2552	04	LAHAINA	4	20 54	156 38	2000		WI			PIONEER MILL CO LTD
KAHULUI WSO 398 AP	R 2572	03	WAILUKU	3	20 54	156 26	48	M10	M10		C J	NATL WEATHER SERVICE
KAILIILI 436	A 2630	01	MAKAWAO	1	20 51	156 16	2520		MO			E MAUI IRR CO LTD
KAILUA 446	2679	01	MAKAWAO	1	20 54	156 13	700	7A	7A			E MAUI IRR CO LTD
KAUUA INTAKE 375	A 3433	04	LAHAINA	4	20 53	156 38	1585		WI			PIONEER MILL CO LTD
KAUPO RANCH HOUSE 259	3576	02	HANA	2	20 39	156 08	1020				C	KAUPO RANCH
KEAHUA 410	3910	03	MAKAWAO	3	20 52	156 23	480		5A			HAWAIIAN COM & SUG CO
KEANAE 346	A 4091	01	HANA	1	20 50	156 10	980		MO			E MAUI IRR CO LTD
KEAWAKAPU BEACH 260.2	4193	02	MAKAWAO	2	20 42	156 27	20	8A	8A		C	ALLEN L CORELL
KIHEI 311	4489	03	WAILUKU	3	20 47	156 27	90		7A			HAWAIIAN COM & SUG CO
KIPAHULU 258	4634	01	HANA	1	20 39	156 04	260		7A			HANA RANCH-KIPAHULU SEC
KUKUI 380	A 4887	04	LAHAINA	4	20 54	156 35	5788		MO			MAUI LANO-PINEAPPLE CO
KULA SANATORIUM 267	5006	02	MAKAWAO	2	20 42	156 22	3004	7A	7A			KULA SANATORIUM
LAHAINA 361	5177	04	LAHAINA	4	20 53	156 41	45	7A	7A		C	PIONEER MILL CO LTD
LAUNIUPOKO INTAKE 376	A 5404	04	LAHAINA	4	20 51	156 37	1280		WI			PIONEER MILL CO LTD
LAUNIUPOKO VILLAGE 372A	A 5408	04	LAHAINA	4	20 51	156 39	220		7A			PIONEER MILL CO LTD
LUPI UPPER 442	A 5665	01	MAKAWAO	1	20 53	156 15	1240		MO			E MAUI IRR CO LTD
MAHINAHINA 466	A 5715	04	LAHAINA	4	20 57	156 40	715		7A			PIONEER MILL CO LTD
MOKUPEA 475	A 6521	04	LAHAINA	4	20 59	156 37	1290		MO			MAUI LANO-PINEAPPLE CO
NAKALELE FIELO 60 497	A 6645	04	LAHAINA	4	21 02	156 36	340		VAR			MAUI LANO-PINEAPPLE CO
OLINDA 332	A 7040	01	MAKAWAO	1	20 48	156 17	4127		VAR			EAST MAUI IRRIGATION CO
OWOWALU 296.1	7059	04	LAHAINA	4	20 49	156 37	20		7A			PIONEER MILL CO LTD
PAAKEA 350	7194	01	HANA	1	20 49	156 07	1260		VAR		C	E MAUI IRR CO LTD
PAIA 406	7566	01	WAILUKU	1	20 55	156 23	170		6A			HAWAIIAN COM & SUG CO
PANILEIHULU 259.2	A 7674	02	HANA	2	20 41	156 08	3570		MO			KAUPO RANCH CO.
PEAHI 488.6	7952	01	MAUI	1	20 54	156 17	830		WI		C	BERNARD RUPLINGER
POHAKA BRIDGE 307.2	A 8060	03	WAILUKU	3	20 49	156 31	167		6A			WAILUKU SUGAR CO
POLIPOLI SPRINGS 267.2A	8070	02	MAKAWAO	2	20 41	156 20	6150		VAR			STATE DIV OF FORESTRY
PUOHOKAMOA 2 343	A 8336	01	HANA	1	20 50	156 13	2980		MO			E MAUI IRR CO LTD
PUUNENE 396	8543	03	WAILUKU	3	20 53	156 27	60		7A			HAWAIIAN COM & SUG CO
PUU PAKI 352	A 8553	01	HANA	1	20 46	156 03	2160				S	EAST MAUI IRRIGATION CO
SPRECKELSVILLE 400.2	8688	03	WAILUKU	3	20 54	156 25	85		8A			HAWAIIAN COM & SUG CO
TWIN GATES 261.3	A 8742	03	MAKAWAO	3	20 46	156 23	1310		VAR			KAONOULU RANCH
UH AGRI RES CNTR 324.5	8743	02	MAUI	2	20 46	156 20	3050				C	UH MAUI AGRI RESCH CNTR
UKULELE 333	A 8744	01	MAKAWAO	1	20 48	156 15	5230		MO			HALEAKALA RANCH CO
UKUMEHAME 301	A 8750	04	LAHAINA	4	20 48	156 35	75		7A			PIONEER MILL CO LTD
ULUPALAKUA RANCH 250	8760	02	MAKAWAO	2	20 39	156 24	1900		8A		C	ULUPALAKUA RCH CO LTD
WAHIKULI 364	A 8955	04	LAHAINA	4	20 54	156 40	580		8A			PIONEER MILL CO LTD
WAIHEHU CAMP 484	A 9275	03	WAILUKU	3	20 55	156 31	320		6A			WAILUKU SUGAR CO
WAIHEE VALLEY 482	A 9315	04	WAILUKU	4	20 57	156 32	300		6A			WAILUKU SUGAR CO
WAIKAMOI 449	A 9332	01	HANA	1	20 52	156 12	1200		MO			E MAUI IRR CO LTD
WAIKAMOI DAM 336	A 9335	01	MAKAWAO	1	20 49	156 14	4320		VAR		C	EAST MAUI IRRIGATION CO
WAIKAPU 390	A 9376	03	WAILUKU	3	20 51	156 31	370		6A			WAILUKU SUGAR CO
WAILUA IKI 348	A 9460	01	HANA	1	20 48	156 09	2630				S	EAST MAUI IRRIGATION CO
WAILUKU 386	A 9484	03	WAILUKU	3	20 54	156 30	180	7A	7A			WAILUKU SUGAR COMPANY
WAIOPAI RANCH 256	A 9765	02	HANA	2	20 38	156 12	220		OC			HALEAKALA RANCH CO
ISLAND OF HAWAII												
AHUA UMI 75	A 0040	05	N KONA	5	19 38	155 47	5220		MO			W.H. GREENWELL RANCH
CITY OF REFUGE 27.4	0344	04	S KONA	4	19 25	155 55	15		9A			NAT HISTORICAL PARK
HAINA 214	0840	01	HAMAKUA	1	20 06	155 28	461		8A			HONOKAA SUGAR CO

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								TEMP.	PRECIP.	EVAP.	SPECIAL (SEE NOTES)	
ISLAND OF HAWAII												
HAKALAU 142	0905	02	S HILO	2	19 54	155 08	105		7A			MAUNA KEA SUGAR CO
HALEMAUMAU S2	A 1033	03	KAU	3	19 24	155 17	3648		MO			HAWAII NAT PARK
HALEPOHAKU III	A 1065	02	HAMAKUA	2	19 46	155 28	9220		3P			MAUNA KEA OBSERVATORY
HAWAII VOLCNS NP HQ S4	1303	02	KAU	2	19 26	155 16	3971	8A	8A			HA VOLCANOES NAT PK HQS
HAWI 168	A 1339	01	N KOHALA	1	20 14	155 50	580		6A			K L BONO
HILO COUNTRY CLUB 86.6	1487	02	HAWAII	2	19 41	155 10	1600		7A			REX WILLS 11
HILO WSO AP 87	R 1492	02	S HILO	2	19 43	155 04	36	MIO	MIO		J	NATL WEATHER SERVICE
HOLUALOA 70	A 1557	04	N KONA	4	19 38	155 55	3220		MO			STATE DIV OF FORESTRY
HOLUALOA BEACH 68	A 1562	04	N KONA	4	19 37	155 59	14		7A			CAPT COOK CATTLE CO
HONANAU 27	1665	04	S KONA	4	19 27	155 53	1089		7A			SHIGETO L TANAKA
HONOHINA 137	1701	02	N HILO	2	19 56	155 09	300		7A			MAUNA KEA SUGAR CO
HONOMU MAUKA 138	1960	02	S HILO	2	19 51	155 09	1100		7A			MAUNA KEA SUGAR CO
HONUAULA 71	A 2047	04	N KONA	4	19 40	155 53	6250		MO			STATE DIV OF FORESTRY
HUALALAI 72	A 2151	04	N KONA	4	19 42	155 52	8190		MO			STATE DIV OF FORESTRY
HUEHUE 92.1	A 2156	04	N KONA	4	19 45	155 59	1960		6A			HUEHUE RANCH
KAAALA IKI 12	A 2249	03	KAU	3	19 08	155 34	1340		WI			KAU SUGAR COMPANY, INC
KAAHALOA 29	A 2327	04	SOUTH KONA	4	19 30	155 55	1340		8A			CAPT COOK INVESTMENT CO
KAHIKAWI MAUKA 3.8	2512	03	KAU	3	19 08	155 46	4120					RUSSELL P. SMITH
KAHUA RCH HQTRS 176.3	2600	01	HAWAII	1	20 08	155 48	3240					KAHUA RANCH COMPANY
KAINALIU 73.2	2751	04	N KONA	4	19 32	155 56	1500	7A	7A			KONA EXPERIMENT STA
KALAOA 69.22	2887	04	HAWAII	4	19 44	155 59	2000		8A			FLOYD W MC COY
KALAPANA 1 67.8	2894	02	S HILO	2	19 20	155 02	10		VAR			HAWAII VOLCANOES NAT PK
KAMAOA 2 S	A 3048	03	KAU	3	19 02	155 40	1375		WI			PARKER RCH-KAPAPALA DIV
KAMUELA 192.2	3077	01	S KOHALA	1	20 01	155 40	2670	6A	6A			PARKER RANCH
KAPAPALA RANCH 36	A 3300	03	KAU	3	19 17	155 27	2140		6A			PARKER RCH-KAPAPALA DIV
KAPOHO BEACH 93.11	3368	02	HAWAII	1	19 30	154 49	10	8A	8A			H E MC NICHOLS
KAPOHO LANDING 93.5	A 3369	02	PUNA	2	19 30	154 52	290		VAR			DEPT OF PUBLIC WORKS
KAWAINUI LOWER 193	A 3770	01	HAMAKUA	1	20 05	155 39	1080		WI			HONOKAA SUGAR CO
KEAAU 92	3872	02	PUNA	2	19 38	155 02	285	8A	8A			PUNA SUGAR CO
KEAIIWA CAMP 22.1	3925	03	KAU	3	19 14	155 29	1700					KAU SUGAR COMPANY, INC
KEALAKEKUA 26.2	3977	04	S KONA	4	19 30	155 55	1450					HERBERT KANE
KEANAKOLU CAMP 124.2	4098	02	HAMAKUA	2	19 55	155 21	5280					STATE DIV OF FORESTRY
KIOLAKAA A & F 6	A 4625	03	KAU	3	19 04	155 38	1925		MO			STATE DIV OF FORESTRY
KIPA 89.2	A 4632	02	S HILO	2	19 44	155 09	1490		WI			MAUNA KEA SUGAR CO.
KOHALA MISSION 175.1	4680	01	N KOHALA	1	20 14	155 48	537	7A	7A			K. LYMAN BONO
KOIKAWA LOWER 196	A 4685	01	HAMAKUA	1	20 05	155 38	720		WI			HONOKAA SUGAR CO
KONA (KAILUA) 68.3	A 4764	04	N KONA	4	19 39	156 00	30	8A	8A			CHEVRON USA
KONA VILLAGE 93.8	4765	04	N KONA	4	19 50	155 59	20		8A			KONA VILLAGE RESORT HTL
KUKAIAU 222	4815	01	HAMAKUA	1	20 02	155 21	840		6A			LAUPAHOEHOE SUGAR CO
KUKUIHALE HIC 199	4928	01	HAMAKUA	1	20 07	155 35	980		6A			HONOKAA SUGAR CO
KUKUIHALE MILL 206	A 4938	01	HAMAKUA	1	20 08	155 34	300		6A			HONOKAA SUGAR CO
KULANI CAMP 79	S011	02	S HILO	2	19 33	155 18	5170	8A	8A			ST DEPT OF SOCIAL SER
KULANI MAUKA 76	A S018	05	N HILO	S	19 35	155 27	8300		WI			MAUNA LOA OBS.
KULANI SCHOOL SITE 78	A S021	02	S HILO	2	19 35	155 20	5735		WI			ST DEPT OF SOCIAL SER
LALAMILO FLO OFF 191.1	S260	01	S KOHALA	1	20 01	155 41	2615					STATE DEPT OF L&N RES
LANIHAU 68.2	S330	04	N KONA	4	19 40	155 58	1530		7A			KONA EXPERIMENT STATION
LAVA TREE PARK 66.1	S460	02	PUNA	2	19 29	154 54	650					STATE DIV OF PARKS
MAKAHALAU 103	S761	02	HAWAII	1	19 59	155 33	3820		6A			PARKER RANCH
MAUKA 2	A 6134	03	KAU	3	19 07	155 50	1760		WI			STATE DIVISION OF PARKS
MAUNA KEA OBS 111.2	6183	02	HAWAII	2	19 49	155 28	13770		7P			MAUNA KEA OBSERVATORY
MAUNA LOA SLOPE OBS	6198	05	HAMAKUA	S	19 32	155 35	11150	MIO	MIO			MAUNA LOA OBSERVATORY
MIDDLE HOLUALOA 68.1	A 6268	04	N KONA	4	19 37	155 58	500		7A			CAPT COOK CATTLE CO
MIDDLE PEN 147.1	A 6270	01	N KOHALA	1	20 06	155 50	1380		VAR			KAHUA RANCH
MORULA 18	A 6407	03	KAU	3	19 11	155 30	600		WI			PARKER RCH-KAPAPALA DIV
MOUNTAIN VIEW 91	6552	02	PUNA	2	19 33	155 07	1530	6A	6A			PUNA SUGAR CO
NAALEHU 14	A 6588	03	KAU	3	19 04	155 35	800	8A	8A			KAU SUGAR COMPANY
NAPOOPOO 28	A 6697	04	S KONA	4	19 28	155 55	350		7A			U H KONA EXP STATION
OOKALA 223	7131	02	N HILO	2	20 01	155 17	430	7A	7A			LAUPAHOEHOE SUGAR CO
OPIHIHALE 2 24.1	7166	04	S KONA	4	19 16	155 53	1270	7A	7A			MRS LORNA TRUMAN
ORCHID LAND EST 91.5	A 7185	02	PUNA	2	19 34	155 00	445		VAR			BOARD OF WATER SUPPLY
PAAUHAU 217	7204	01	HAMAKUA	1	20 05	155 26	415		8A			HONOKAA SUGAR COMPANY
PAAUULO 221	7312	01	HAMAKUA	1	20 03	155 22	800		7A			LAUPAHOEHOE SUGAR CO
PAHALA 21	A 7421	03	KAU	3	19 12	155 29	870	8A	6A			KAU SUGAR COMPANY, INC
PAHOA 65	7457	02	PUNA	2	19 30	154 57	670		6A			PUNA SUGAR COMPANY
PAKAO 37	A 7643	03	KAU	3	19 22	155 28	5000		MO			PARKER RCH-KAPAPALA DIV
PAPAIKOU 144.1	7711	02	S HILO	2	19 47	155 06	260		7A			MAUNA KEA SUGAR CO
PAPAIKOU MAUKA 140.1	7721	02	S HILO	2	19 47	155 08	1270		7A			MAUNA KEA SUGAR CO

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								TEMP.	PRECIP.	EVAP.	SPECIAL (SEE NOTES)	
ISLAND OF HAWAII												
PIIHONUA 89	A 8051	02	5 HILO	2	19 44	155 10	1730		MO			STATE DIV OF FORESTRY STATE DIVISION OF PARKS SUPT PUU HEIAU-NHS W.H. GREENWELL RANCH PUU WAAWAA RANCH CO BOARD OF WTR SUPPLY MRS CAROLYN CARLSON PARKER RCH-KAPAPALA DIV U S COAST GUARD SHINICHI KANESHIRO
POHAKULOA 107	8063	02	HAMAKUA	2	19 45	155 32	6511		WI			
PUUKOHOLA HEIAU 98.1	8422	05	HAWAII	5	20 02	155 50	140	8A	8A			
PUU LEHUA 73	A 8460	04	N KONA	4	19 34	155 49	4880		MO			
PUU WAAWAA 94.1	A 8555	05	N KONA	5	19 47	155 51	2520		7A			8015E CASCADES WA CONST
SADDLE ROAD 1 84	A 8590	02	5 HILO	2	19 42	155 12	2340		WM			
SOUTH KONA 2.31	8650	03	HAWAII	3	19 06	155 45	2650	8A	8A			
SOUTH POINT CORRAL 3	A 8675	03	KAU	3	18 57	155 41	500		WI			
UPOLU POINT USCG 159.2	8830	01	N KOHALA	1	20 15	155 53	61	8A	2P			
WAIKAKA SCO 88.2	9025	02	5 HILO	2	19 40	155 08	1050		7A			
WAIKALOA-8015 CAS 95.8	9142	04	HAWAII	5	19 56	155 48	900		8A			

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								TEMP.	PRECIP.	EVAP.	SPECIAL (SEE NOTES)	
PACIFIC												
EAST OF 180TH MERIDIAN												
ATU'U	4060	D3	TUTUILA		14 16S	170 41W	26S		4P			MARIST BROTHERS
CANTON ISLAND	4101	02	PHOENIX IS		2 46N	171 43W	8	9A	9A			ITT/FEDERAL ELEC CORP
FALESAO VILLAGE	4248	03	TA'U'MAN		14 14S	169 31W	16		8A			SOLOMULI MALU'IA
JOHNSTON IS WSO AP	R 4320	D1	LINE ISLANDS		16 44N	169 31W	10	M10	M10	SP	J	NATL WEATHER SERVICE
LEONE	4397	D3	TUTUILA		14 21S	170 47W	20	6P	6P			ST THERESA SCHDOL
FRENCH FRIGATE SHOALS	4401	07			23 52N	166 17W	6	8P	8A			U S COAST GUARD
MIDWAY SAND ISLAND	4490	07			28 13N	177 21W	10	M10	M10			U S NAVY
PAGO PAGO WSO AP	R 4690	03	AMER SAMOA		14 20S	170 43W	12	M10	M10		J	NATL WEATHER SERVICE
WESTERN PACIFIC ISL. NORTH OF 12 N												
ANDERSEN AFB GUAM	\$3 4025	03	MARIANNA IS		13 35N	144 55E	624	M10	M10			AIR WEATHER SERVICE
CLARK AFB LUZON	\$3 4100	06	PHILIPPINE I		15 11N	120 33E	475	M10	M10			U S AIR FORCE
GUAM NAS	4226	03	MARIANNA IS		13 29N	144 48E	254	M10	M10			U S NAVY
GUAM WSMO	R 4229	03	MARIANNA IS		13 33N	144 50E	361	10A	10A	6P	J	NATL WEATHER SERVICE
MANGILAO	4468	03	GUAM		13 27N	144 49E	60		7A			GUAM AGRICULTURAL STA
ROTA	4800	03	MARIANNA IS		14 08N	145 09E	47		8A			DIST ADMINISTRATOR
SAIPAN LORAN	4860	03	MARIANNA IS		15 08N	145 42E	9	10A	10A			U S C G LORAN STATION
WAKE ISLAND WSO AP	R 4901	D1	WAKE ISLAND		19 17N	166 39E	12	M10	M10		J	NATL WEATHER SERVICE
CAROLINE AND MARSHALL ISLANDS												
ANGUAR	4030	02	CARDLINE IS		6 55N	134 09E	15		8A			USCG LORAN STATION
ENWETAK	4165	D1	MARSHALL IS		11 21N	162 21E	10	6P	6P			MID-PACIFIC MARINE LAB
FALALOP I ULITHI ATOLL	4185	D2	CARDLINE IS	2	10 02N	139 48E	6	M10	M10			RAPAHEL 8 LINGSDH
KAPINGAMARANGI ATOLL	4325	01	PONAPE		1 05N	154 48E	10	M10	M10			ERSIN HAQUET
KORDOR WSD	R 4351	D2	CARDLINE IS		7 20N	134 29E	94	M10	M10		J	NATL WEATHER SERVICE
KWAJALEIN MISSILE RGN	R 4375	D1	MARSHALL IS		8 44N	167 44E	7	12M	12M		J	KMR WEATHER SERVICE
LELE I KOSRAE	4395	D2	KOSRAE		5 20N	163 02E	7	M10	M10			JULIAN E ROBERT
MAJURO WSO AP	R 4460	D2	MARSHALL IS		7 05N	171 23E	10	M10	M10		J	NATL WEATHER SERVICE
METALANIM	4482	D2	PONAPE		6 51N	158 19E	30	6P	6P			REV E. A. SOUCIE
MOKIL ATOLL	4490	02	PONAPE DIST.		6 41N	159 47E	27		5P			ESHIAM BEN
NGASANG-8ABELTHUAP	4580	D1	PALAU ISLAND		7 38N	134 39E	10		8A			BETHANIA SEMINARY
PONAPE WSD	R 4751	D2	CARDLINE IS		6 58N	158 13E	123	M10	M10		J	NATL WEATHER SERVICE
SATAWAN ATOLL	4814	D2	CARDLINE IS		5 20N	153 44E	9	M10	M10			ANTER EKO
TRUK. MDEN I. WSO AP	R 4851	D2	CARDLINE IS		7 28N	151 51E	5	M10	M10		J	NATL WEATHER SERVICE
WOLEAI ATOLL	4911	D1	CARDLINE IS		7 23N	143 55E	7	M10	M10			HASUGULIMAR/HALEYEMAI
YAP WSD AP	R 4951	D2	CARDLINE IS		9 29N	138 05E	44	M10	M10		J	NATL WEATHER SERVICE

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# REFERENCE NOTES

HAWAII AND PACIFIC

Additional information regarding the climates of Hawaii and the Pacific Ocean Area may be obtained by writing to the National Climatic Center, Federal Building, Asheville, N.C. 28801, or to any National Weather Service Office near you. Additional precipitation data for Hawaii are contained in "HOURLY PRECIPITATION DATA HAWAII."

**DIMENSIONAL UNITS:** Unless otherwise indicated, dimensional units used in this bulletin are: Temperature in °F., precipitation and evaporation in inches, and wind movement in miles. In "Supplemental Data" table directions entered in figures are tens of degrees. Resultant wind is the vector sum of wind directions and speeds divided by the number of observations.

**OBSERVATION TIME:** Data in the "Monthly Extremes," "Daily Precipitation" table, "Daily Temperature" table, and "Evaporation and Wind" table are for the 24 hours ending at time of observation unless indicated otherwise by reference letters in the Station Index. The Station Index shows observation time in local standard time.

**EVAPORATION** is measured in the standard Weather Service-type pan of 4-foot diameter unless otherwise noted below in the Evaporation and Wind table. Max and Min values in the Evaporation and Wind table are extremes of temperature of water in pan as recorded during 24 hours ending at time of observation. Wind is the total wind movement in miles over the evaporation pan as determined by a continuous anemometer recorder located 6-8 inches above the pan.

**NORMALS** for all stations are climatological standard normals based on the period 1941-1970.

**STATION NAMES:** Hawaii state key numbers are included following station names in the several tables.

**LATE REPORTS AND CORRECTIONS** will be carried only in the June and December issues of this bulletin.

**INTERPOLATED VALUES** for monthly precipitation totals may be found in the annual issue of this publication.

**IN THE DATA TABLES THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING:**

- No record in the "Supplemental Data" table, "Daily Precipitation" table, "Evaporation and Wind" table, and the Station Index.
- No record in the "Monthly Summarized Data" table and the "Daily Temperature" table is indicated by no entry.
- + And also on an earlier date or dates.
- ++ Highest observed one minute windspeed. This station is not equipped with an instrument to measure fastest mile data.
- \* Amount included in following measurement, time distribution unknown.
- ‡ Extreme occurred at station with incomplete data which may have been exceeded.
- A The letter "A" shown following station name in "Monthly Summarized Data" table, "Daily Precipitation" table, and "Station Index," indicates amount carried in the "Total" column is for the period from last measurement of a preceding month through the last measurement of the current month. See "Daily Precipitation" table of this and previous bulletins for dates of measurement. Where gages are read only once monthly, measurements made on the first of a month are credited to the last day of the preceding month.
- B Adjusted to a full month.
- M One or more days of record missing; if average value is entered, less than 10 days record is missing. See "Daily Temperature" table for detailed daily record.
- R Amounts from recording gage.
- T Trace, an amount too small to measure.
- V Includes total for previous month.

**IN THE STATION INDEX THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING:**

- AR Observation made after rain.
- C In Special Column of Station Index indicates Recording Rain Gage Station. Hourly Precipitation values are processed for special purposes, and are published later in the "Hourly Precipitation Data" bulletin. If daily amounts are published in "Monthly Summarized Data" bulletin they are from a separate non-recording gage, except where indicated by reference "R". Such amounts may differ from amounts published from the recording gage in the "Hourly Precipitation Data" bulletin.
- J "Supplemental Data" table.
- MO Gage read once monthly; usually on the last day.
- OC Gage readings at periods varying from a few weeks to several months.
- S Storage precipitation station. Precipitation measurements, made at irregular intervals, are published in the annual issue of this publication, beginning with the 1977 data. Prior data are found in the "Storage-Gage Precipitation Data" Bulletin, which was discontinued with the 1976 issue.
- SS Observation time is near sunset.
- VAR Observation time is variable.
- WI Gage read weekly or irregularly only.
- WM Gage read weekly and last day of month.
- # Thermometers are generally exposed in a shelter located a few feet above sod-covered ground; however, this reference indicates that the thermometers are exposed in a shelter located on the roof of a building.
- \$3 Maximum and minimum temperatures are the highest and lowest hourly readings for each day.
- # DRAINAGE CODE: KAUAI: 1-NORTHERN 2-SOUTHEASTERN 3-SOUTHWESTERN OAHU: 1-WINDWARD KOOLAU 2-HONOLULU 3-SOUTH CENTRAL 4-WESTERN 5-NORTH CENTRAL MOLOKAI: 1-(NO INTRA-ISLAND DIVISIONS) LANAI: 1-(NO INTRA-ISLAND DIVISIONS) MAUI: 1-NORTHEASTERN 2-SOUTHERN 3-CENTRAL 4-WESTERN HAWAII: 1-NORTHERN 2-EASTERN 3-SOUTHERN 4-WESTERN 5-CENTRAL

Stations appearing in the tables with no data were either missing or received too late to be included in this issue.

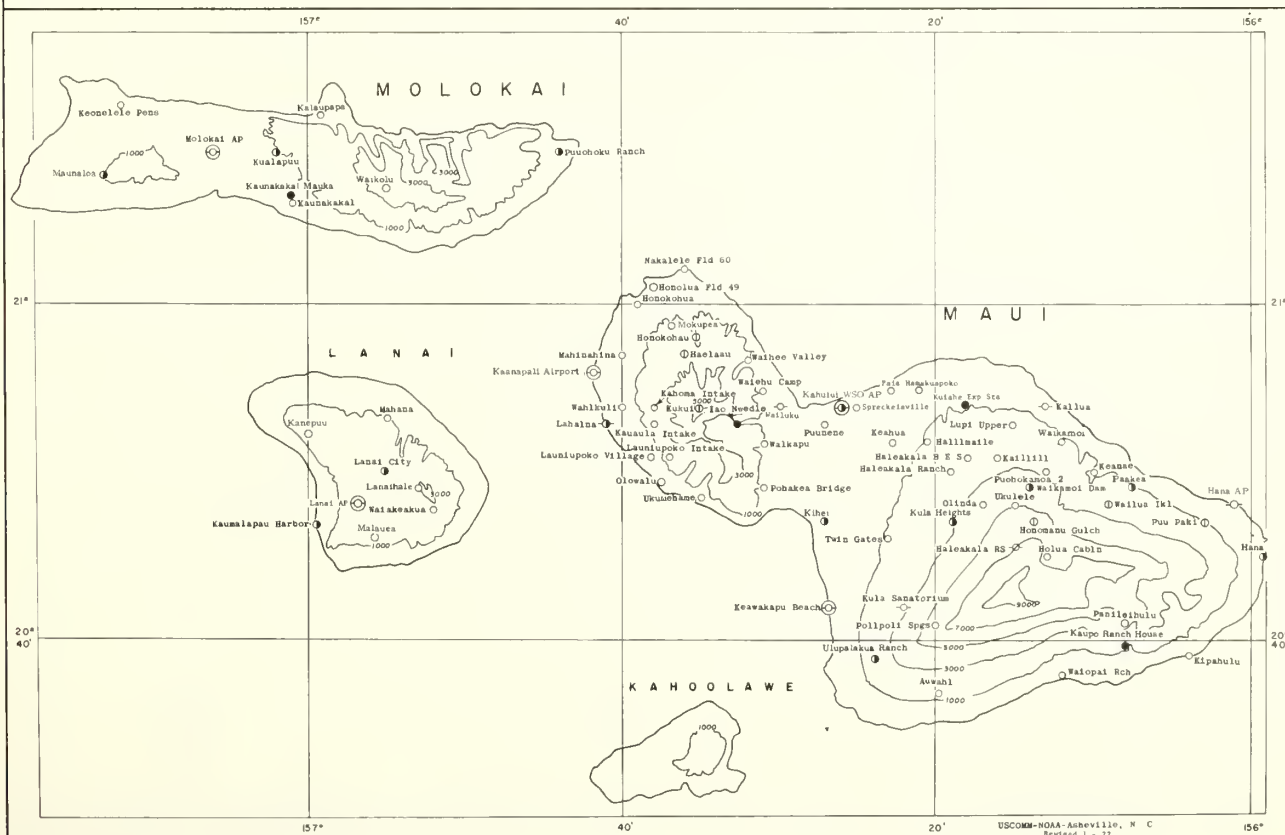
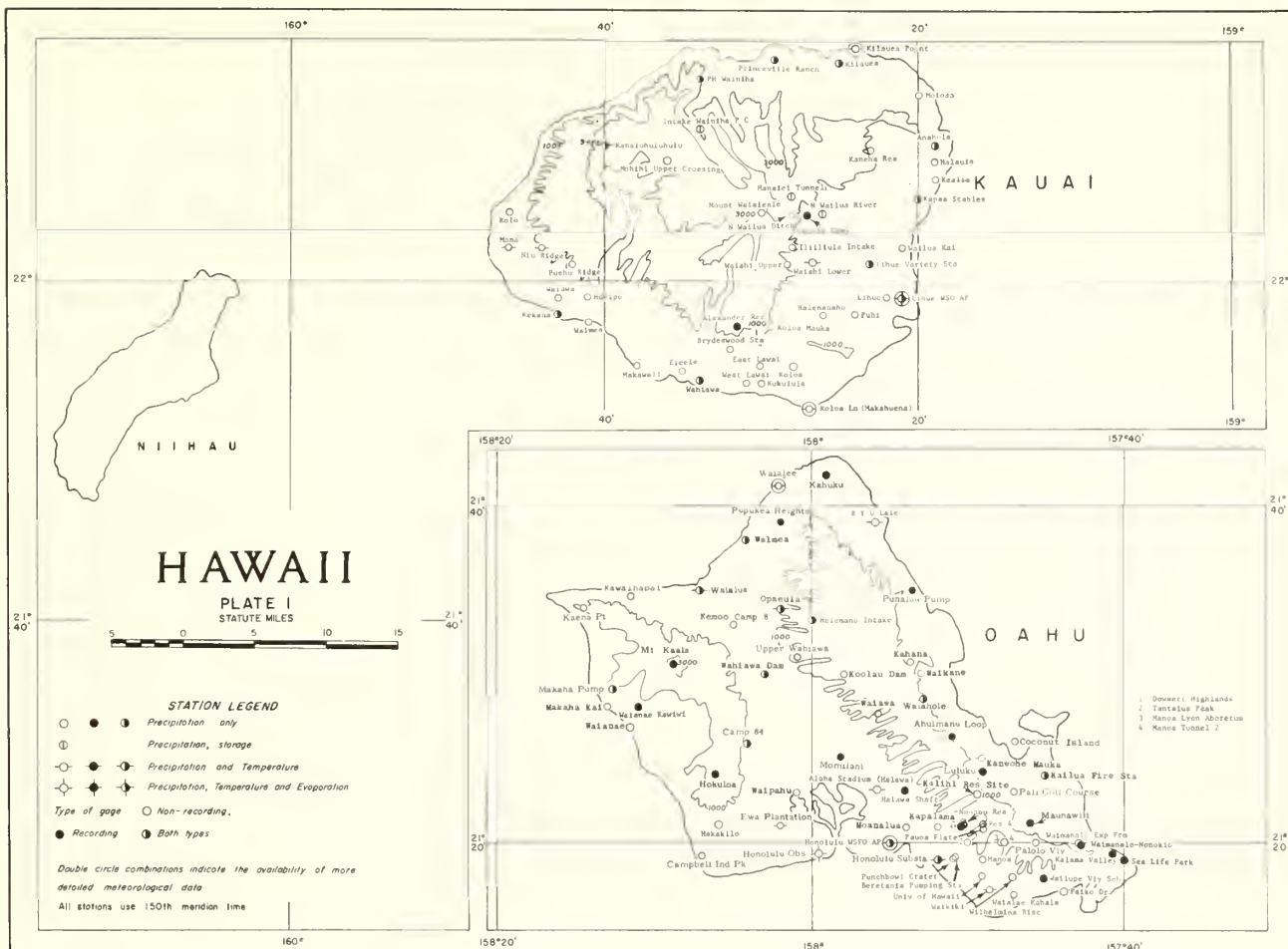
The Pacific includes stations in the Trust Territory of the Pacific Islands, Territory of Guam, American Samoa, and other scattered islands and atolls.

General weather conditions in the U.S. for each month are described in the CLIMATOLOGICAL DATA NATIONAL SUMMARY and STORM DATA.

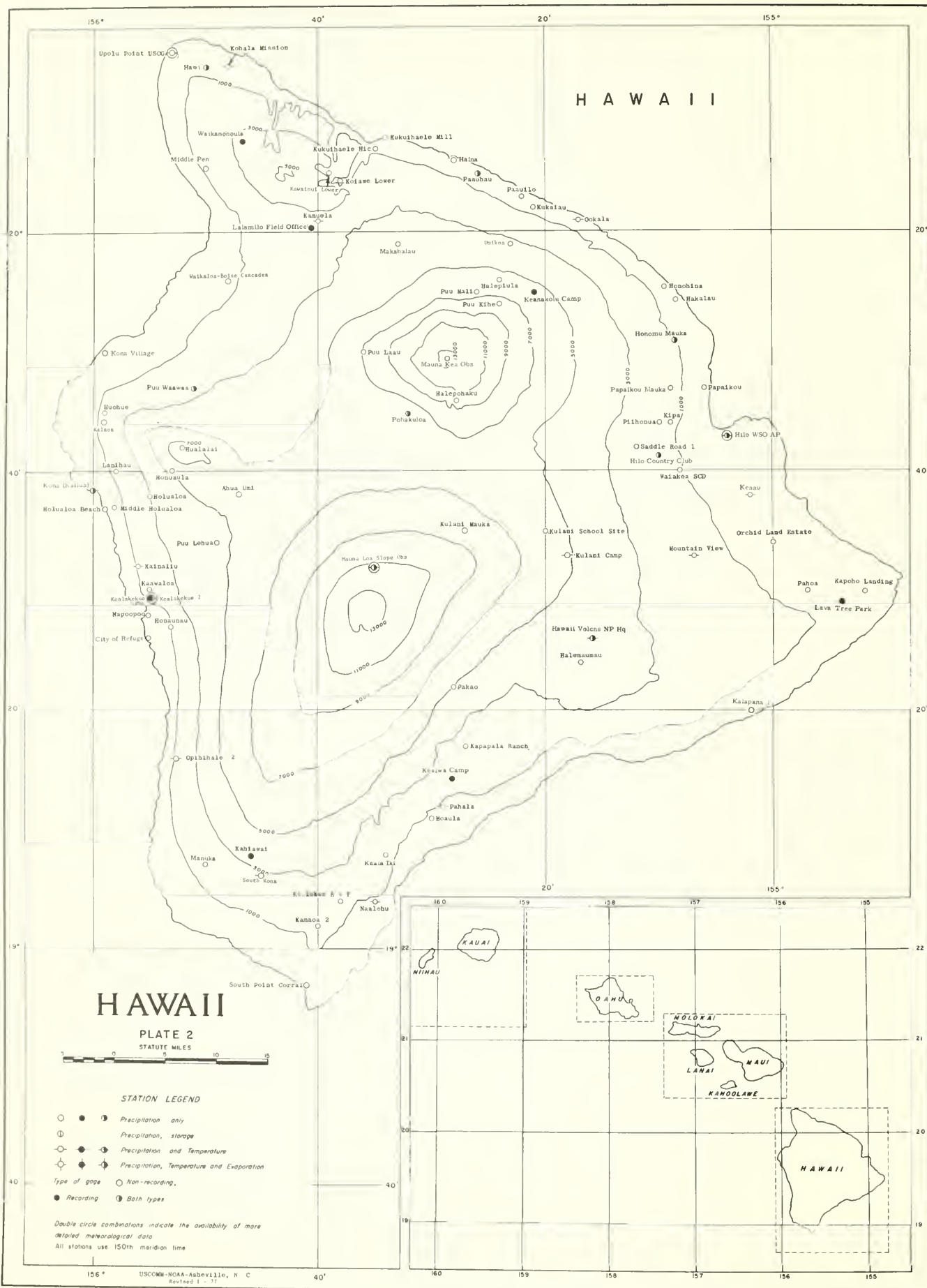
Information concerning the history of changes in locations, elevations, exposure, etc., of substations through 1957 may be found in the publication "Substation History" for this State, price 40 cents. Similar information for regular National Weather Service Offices may be found in the latest annual issue of Local Climatological Data, price 20 cents. These publications may be obtained from the National Climatic Center at the address shown above.

Subscription Price: \$5.10 a year for each section including annual summary; \$5.55 additional for foreign mailing; 40¢ single copy; 30¢ annual summary. Make checks payable to Department of Commerce, NOAA, send payments and orders to: National Climatic Center, Federal Building, Asheville, N. C. 28801. Attn: Publications.

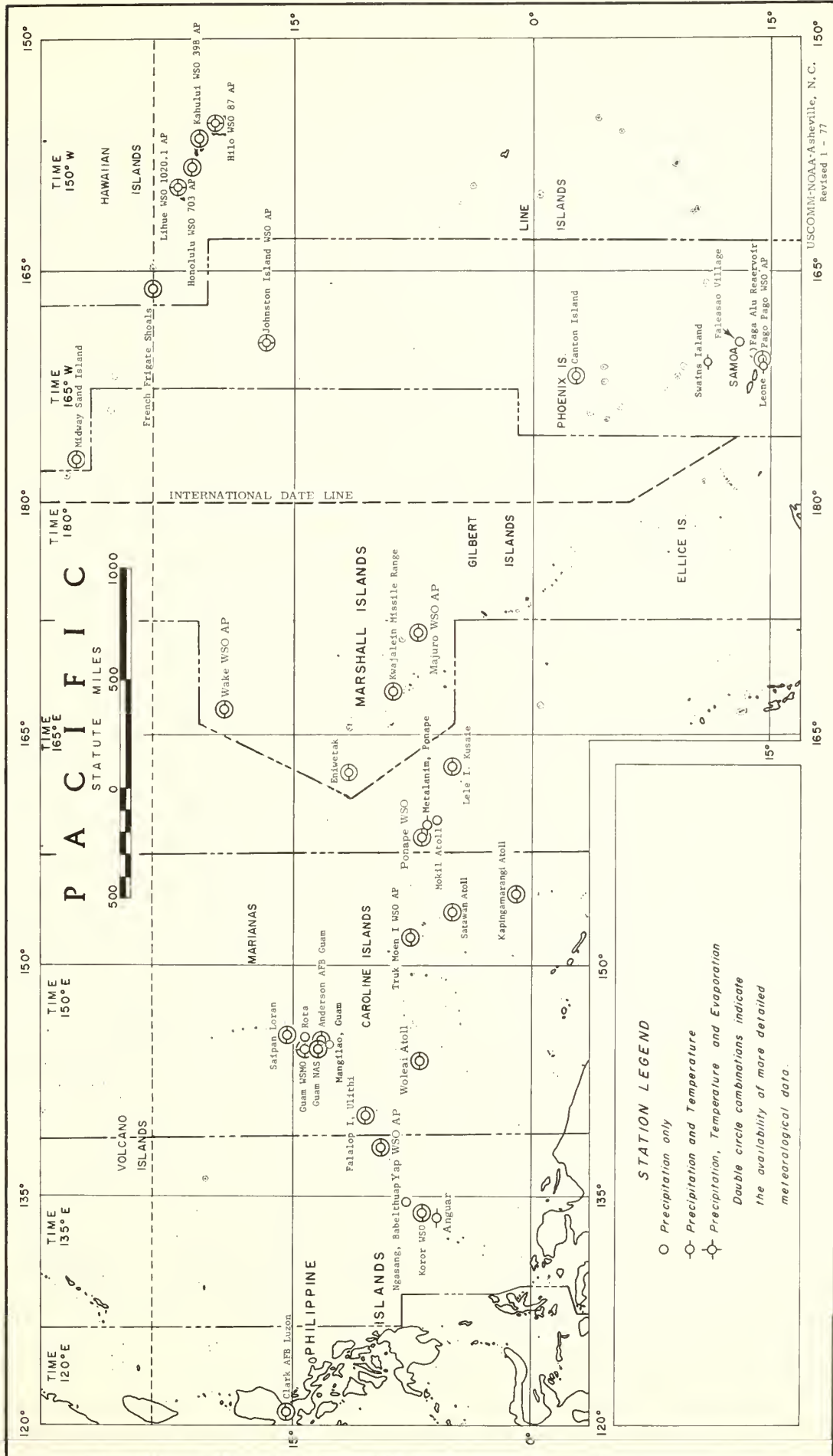
USCOMM-NOAA-ASHEVILLE, N.C. 1976-850

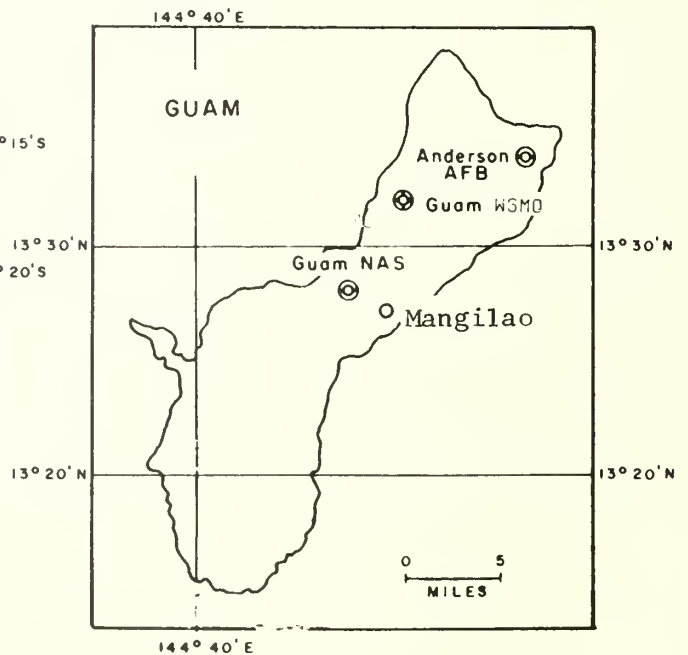
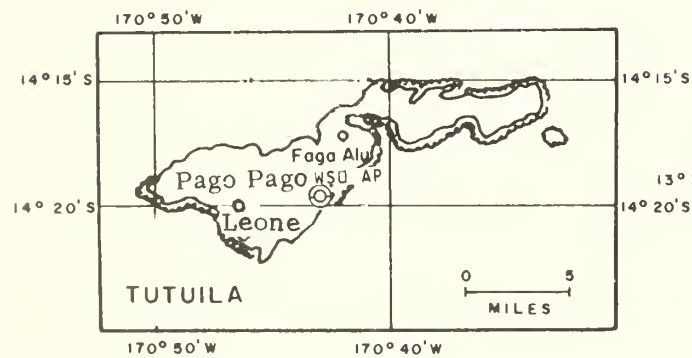
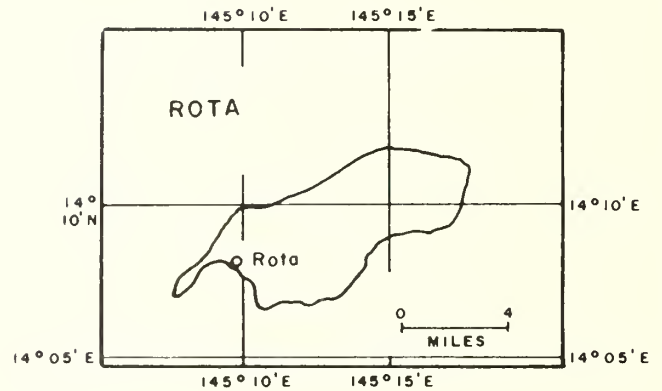
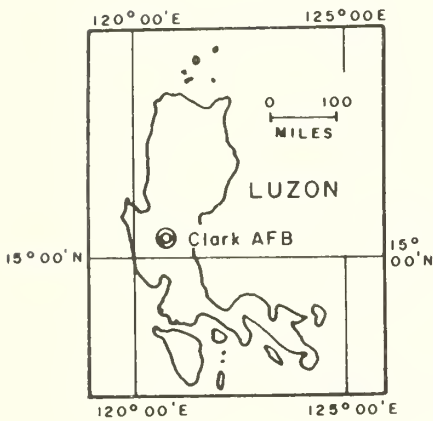
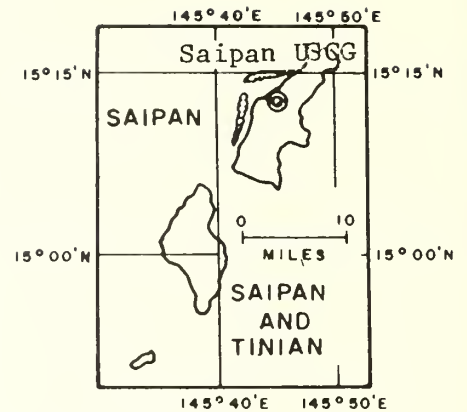
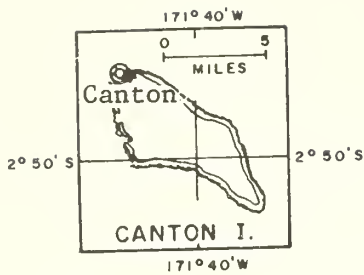


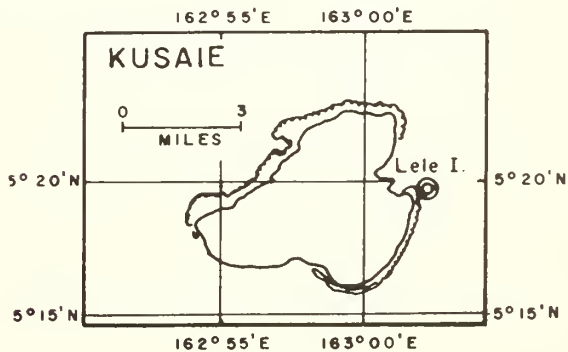
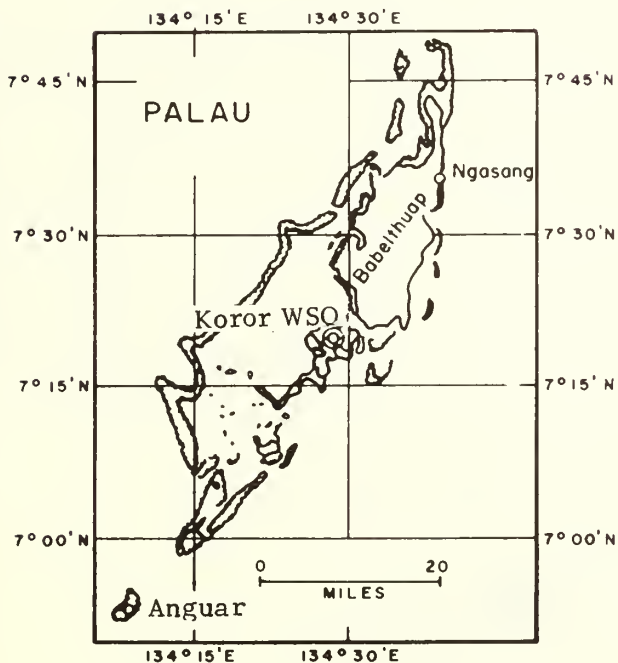
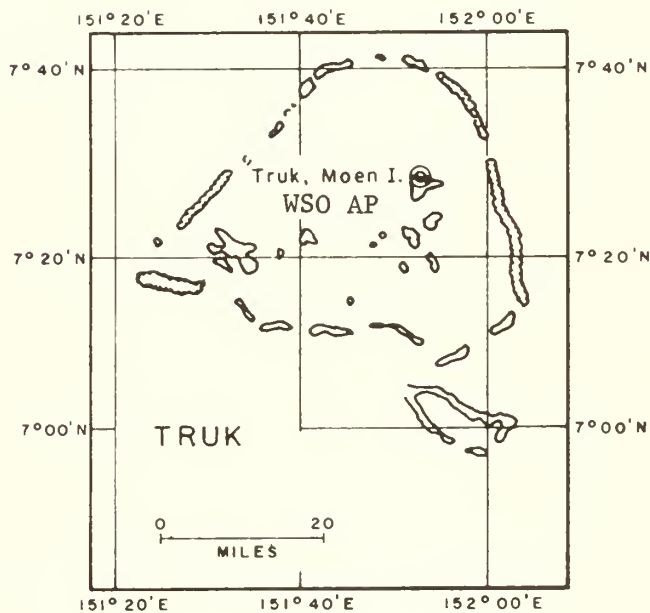
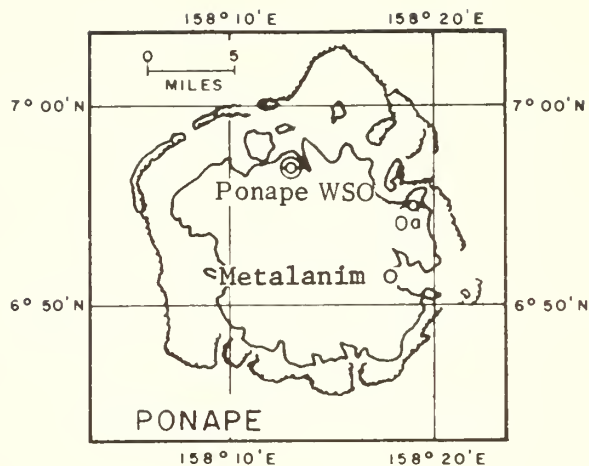
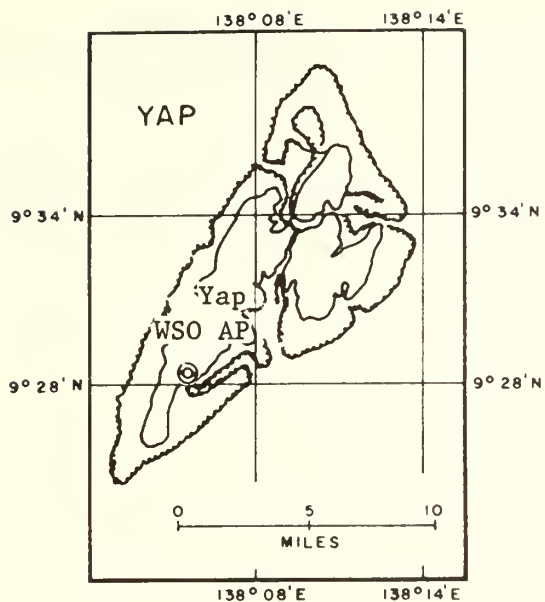




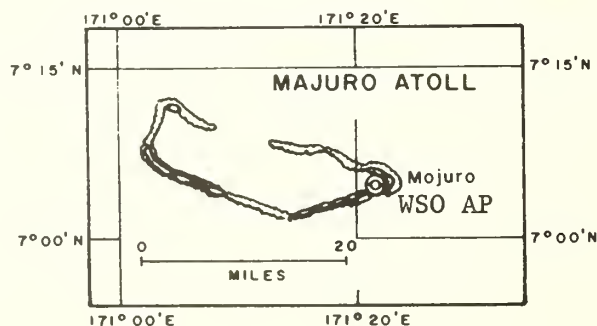
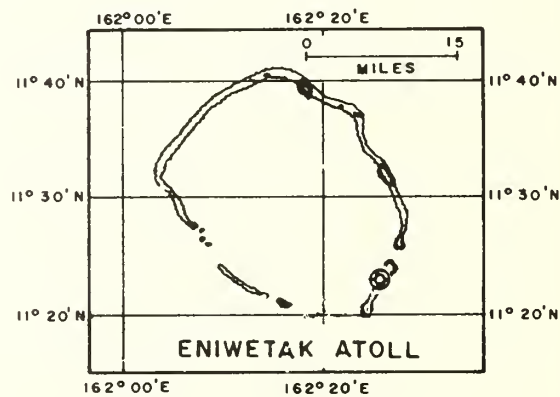
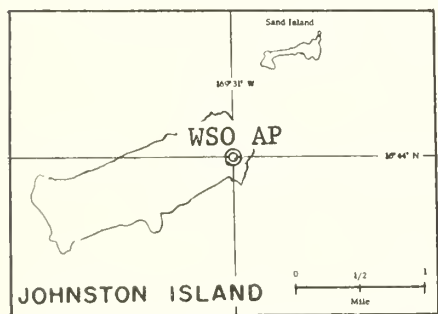
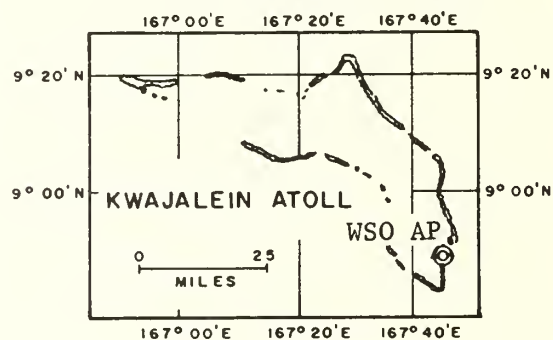
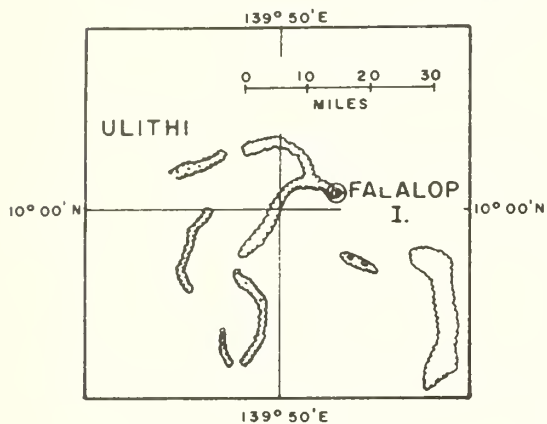
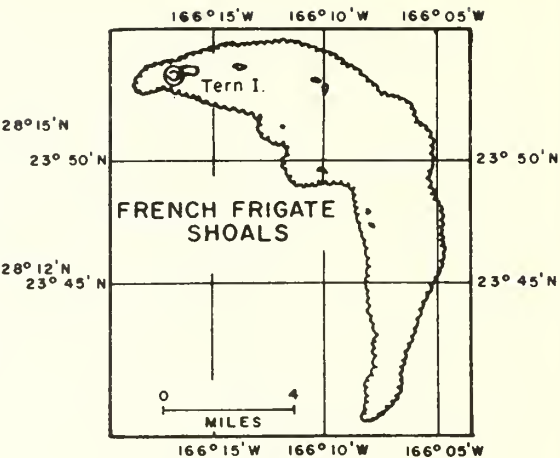
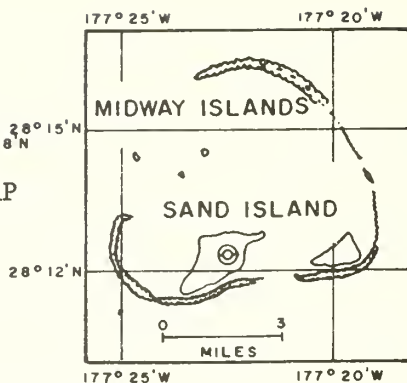
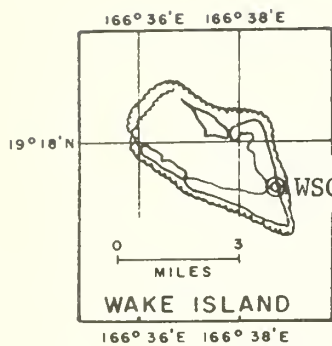








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COM 210



**THIRD CLASS**

# Climatological Data



## HAWAII AND PACIFIC

### TEMPERATURE AND PRECIPITATION EXTREMES

#### HAWAIIAN STATIONS ONLY

HIGHEST TEMPERATURE:	KAHULUI W50 398 AP	MAUI	92	DATE	02
LOWEST TEMPERATURE:	MAUNA LOA SLOPE 085	HAWAII	34	DATE	29
GREATEST TOTAL PRECIPITATION:	KUKUI 380	MAUI	34.40		
LEAST TOTAL PRECIPITATION:	MAUNA KEA 085 111.2	HAWAII	.64		
GREATEST 1 DAY PRECIPITATION:	PALOLO VALLEY 718	OAHA	9.68	DATE	23

AUG 29 1978

### SUPPLEMENTAL DATA

	WIND (SPEED - M.P.H.)						RELATIVE HUMIDITY AVERAGES- PERCENT				NUMBER OF DAYS WITH PRECIPITATION							PERCENT OF POSSIBLE SUNSHINE AVERAGE (TENTHS)	SKY COVER AVERAGE (TENTHS)	SUNRISE TO SUNSET
	RESULTANT DIRECTION	RESULTANT SPEED	AVERAGE	FASTEST MILE	DIRECTION OF FASTEST MILE	DATE OF FASTEST MILE	STANDARD OF TIME GREENWICH CIVIL				TRACE	.01-.09	.10-.49	.50-.99	1.00-1.99	2.00 AND OVER	TOTAL			
							12	18	00	06										
GUAM WSMO	-	-	-	28	E	04	-	74	70	89	1	9	11	1	0	0	22	58	7.9	
HILO W50 87 AP	14	1.8	6.4	23	SE	23	90	81	71	85	3	7	15	2	1	1	29	48	7.6	
HONOLULU W50 703 AP	7	8.3	11.0	30	E	09	76	69	59	71	11	8	2	1	1	0	23	64	6.7	
JOHNSTON W50 AP	7	16.6	17.8	37	E	12	81	80	73	79	11	13	3	0	0	0	27	83	6.7	
KAHULUI W50 398 AP	5	9.4	11.4	34	NE	09	-	73	58	67	2	8	2	0	0	0	12	63	5.7	
KOROR W50	9	4.9	7.3	23	SE	08	88	-	80	79	0	7	5	3	5	1	21	49	7.7	
KWAJALEIN MISSILE RGN	7	11.9	13.4	29++	12	16	87	88	81	83	5	9	6	4	1	3	28	-	8.2	
LIHUE W50 1020.1 AP	6	8.3	11.3	26	NE	13	84	78	66	77	5	14	7	2	1	0	29	66	6.9	
MAJURO W50 AP	8	10.5	11.5	37	E	19	84	85	79	82	0	11	10	5	3	1	30	58	9.2	
PAGO PAGO W50 AP	10	8.0	10.8	30	SE	11	88	87	78	85	4	8	7	3	1	1	24	37	7.8	
PONAPE W50	-	-	-	19	NE	19	87	-	78	81	2	10	9	5	4	0	30	38	9.0	
TRUK MOEN I. W50 AP	8	6.3	9.1	22	NE	11	86	-	81	79	1	6	11	6	4	0	28	33	9.4	
WAKE ISLAND W50 AP	8	13.5	14.9	31	E	04	90	92	74	79	3	10	8	1	0	0	22	65	5.3	
YAP W50 AP	9	6.6	8.4	21	E	14+	86	-	76	75	3	10	10	0	1	0	24	48	8.7	

I CERTIFY THAT THIS IS AN OFFICIAL PUBLICATION OF THE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION AND IS COMPILED FROM RECORDS ON FILE AT THE NATIONAL CLIMATIC CENTER, ASHEVILLE, NORTH CAROLINA 28801.

*Daniel B. Mitchell*DIRECTOR  
NATIONAL CLIMATIC CENTER**noaa**NATIONAL OCEANIC AND  
ATMOSPHERIC ADMINISTRATION / ENVIRONMENTAL DATA AND  
INFORMATION SERVICE / NATIONAL CLIMATIC CENTER  
ASHEVILLE, N.C.

## MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

HAWAII AND PACIFIC  
MAY  
1978

STATION	TEMPERATURE										PRECIPITATION													
	AVERAGE MAXIMUM	AVERAGE MINIMUM	AVERAGE	DEPARTURE FROM NORMAL	HIGHEST	DATE	LOWEST	DATE	DEGREE DAYS	NO. OF DAYS				TOTAL	DEPARTURE FROM NORMAL	GREATEST DAY	DATE	SNOW, SLEET			NO. OF DAYS			
										MAX.		MIN.						TOTAL	MAX. DEPTH ON GROUND	DATE	1.0 OR MORE	5.0 OR MORE	1.00 OR MORE	
										32° OR ABOVE	32° OR BELOW	32° OR ABOVE	32° OR BELOW											
HAWAII																								
ISLAND OF KAUAI																								
ANAHOLA 1114	A	69.5	52.8	61.2		76	3	47	30+		0	0	0	0	5.79		2.05	23		0				1
KANALOHULUHULU 1075		81.3M	69.2M	75.3M		86	4	62	24		0	0	0	0	3.42		.95	5		0		7	2	0
KILAUEA POINT 1133	A										0	0	0	0	5.72		1.86	23		0			3	1
KOLOA 936															7.90					0				
LIHUE WSO 1020.1 AP	//R	82.0	68.3	75.2	- .3	86	3	64	23		0	0	0	0	4.56	2.13	1.04	4		0		10	3	1
MANA 1026															2.47					0				
N WAILUA DITCH 1051	A														20.35	1.42	1.37	23		0		6	1	1
PH WAINIMA 1115															14.65	5.33				0				
PUEHU RIDGE 1040															6.36	4.40	3.40	28		0		5	3	2
WAIHANA 930	A														4.58	2.83				0				0
WAIHAI LOWER 1054		73.9	63.4	68.7		78	1	59	21		0	0	0	0	15.51	7.40	1.99	28		0		23	9	5
WAIHANA 947															3.73	2.68	1.05	23		0		5	5	1
ISLAND			70.1												7.92					0				
ISLAND OF OAHU																								
ALOHA STADIUM-HALAWA		83.9M	68.9M	76.4M		91	22	67	31+		3	0	0	0	3.12		1.19	24		0				1
8 Y U LAIE 903.1		83.4	68.8	76.1		86	31+	65	2+		0	0	0	0	8.74		2.30	23		0		10	5	4
HONOLULU OBSERV 702.2		85.3	67.8	76.6		90	17	64	31+		1	0	0	0	3.73		1.41	23		0		7	3	1
HONOLULU WSO 703 AP	R	84.9	71.4	78.2	1.3	89	2	68	31+		0	0	0	0	3.39	2.43	1.90	23		0		4	2	1
KANEHE MAUKA 781		79.6	69.9	74.8	.6	83	4	66	23		0	0	0	0	10.02	5.24	1.75	6		0		16	7	4
KOOLAU DAM 833	A														14.22		3.42	23		0		20	5	4
MANOA LYON ARBORETUM		79.3	66.2	72.8		86	21	63	24+		0	0	0	0	19.10		4.30	23		0		22	11	7
NUUANU RES 4 783															17.84	9.48	6.74	23		0				
OPAEULA 870	A	79.3	65.0	72.2	2.2	84	24+	63	31+		0	0	0	0						0				
PALOLO VALLEY 718	R														23.16	13.29	9.68	23		0		19	9	5
WAIHOLE 837	A														15.97					0				
WAILALEE 896.3		80.2M	69.4M	74.8M		84	23+	66	24		0	0	0	0	9.80		3.50	5		0				
WAILALUA 847	A	82.2M	64.7M	73.5M	.2	87	3	60	17		0	0	0	0	7.30	5.96	1.80	5		0		9	5	3
WAIKIKI 717.2		85.3	68.4M	76.9M		88	21+	63	3		0	0	0	0	4.92		1.64	23		0		8	4	1
WAIMANALO EXP FM 795.1															8.85		2.06	6		0		11	6	5
WAIPIAHU 750	A														3.33		.93	24		0		3	0	
ISLAND			75.2												10.23					0				
ISLAND OF MOLOKAI																								
MOLOKAI AP 524																								
ISLAND																								
ISLAND OF LANAI																								
LANAI CITY 672	A	76.7M	64.3M	70.5M	1.5	80	25+	60	9		0	0	0	0	4.83	1.72				0				
ISLAND			70.5												4.83					0				
ISLAND OF MAUI																								
HALEAKALA 8 E S 434	A	63.9	45.6	54.8	1.2	71	11	41	31		0	0	0	0	5.14		2.42	6		0		7	3	1
HALEAKALA RS 338		82.4	69.7	76.1		86	19	67	31+		0	0	0	0	2.81	.49	.87	23		0		6	2	0
HANA AIRPORT 355	A										0	0	0	0	14.00		7.75	24		0		13	5	2
HONOKOHUA 493															4.50					0				
KANAPALI AP 453.1		82.6	68.4	75.5		85	21	65	30		0	0	0	0	2.66		.94	22		0		4	3	0
KAHULUI WSO 398 AP	R	86.7	69.9	78.3	2.9	92	2	64	30+		4	0	0	0	.82	.20	.25	5		0		2	0	0
KAILUA 446		78.2M	67.4M	72.8M	2.2	83	22	64	17		0	0	0	0	V16.87					0				
KEANAE 346	A														18.50					0				
KIPAHULU 258															6.45	-.36	1.47	1		0		15	3	1
KULA SANATORIUM 267		72.2	59.7	66.0	2.5	75	23+	56	31+		0	0	0	0	4.78	2.58	1.32	7		0		8	5	1
LAHAINA 361		85.6	69.3	77.5	2.6	88	20+	65	24		0	0	0	0	1.43	.95	.75	23		0		3	1	0
PAIA 406															3.60	2.03				0		6	3	1
WAILUKU 386	A														1.31	.29	1.05	22		0			0	0
ISLAND			71.6												5.50					0				
ISLAND OF HAWAII																								
HAWAII VOLCNS NP HO 54		69.6	54.3	62.0	1.6	76	21	49	3		0	0	0	0	8.65	-.90	1.18	23		0		20	5	1
HILO WSO AP 87	R	83.4	68.9	76.2	2.7	87	23+	67	19+		0	0	0	0	9.64	-.43	2.64	23		0		19	4	2
HUEHUE 92.1															6.39		1.13	26		0		12	6	1
KAINALU 73.2		77.8	61.6	69.7		82	21+	59	17+		0	0	0	0	6.59	-.39	1.41	29		0		17	5	1
KAPOHO BEACH 93.11		85.5M	69.8M	77.7M		90	21	66	31+		1	0	0	0	3.86		.58	23		0				0
KEAU 92															V16.76					0				
KONA (KAILUA) 68.3	A	84.6M	71.0M	77.8M		88	24	69	17+		0	0	0	0	2.53	-2.02	.44	25		0		0	0	0
KUKUIHALE HIC 199															3.56		1.20	22		0				
KULANI CAMP 79		65.6M	49.0M	57.3M		73	28	45	15		0	0	0	0	10.11		1.64	22		0		10	1	1
PAHALA 21	A														5.36		1.52	24		0		11	3	1

SEE REFERENCE NOTES FOLLOWING STATION INDEX

# MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

HAWAII AND PACIFIC  
MAY  
1978

STATION	TEMPERATURE											PRECIPITATION																
	AVERAGE MAXIMUM	AVERAGE MINIMUM	AVERAGE	DEPARTURE FROM NORMAL	HIGHEST	DATE	LOWEST	DATE	DEGREE DAYS	NO. OF DAYS				TOTAL	DEPARTURE FROM NORMAL	GREATEST DAY	DATE	SNOW, SLEET			NO. OF DAYS							
										9° OR ABOVE	32° OR BELOW	32° OR BELOW	32° OR BELOW					0° OR BELOW	TOTAL	DEPARTURE FROM NORMAL	GREATEST DAY	DATE	TOTAL	MAX. DEPTH ON GROUND	DATE	+10 OR MORE	+50 OR MORE	1.00 OR MORE
HAWAII																												
PUUKOHOLA HEIAU 98.1	88.4M	67.4	77.9M		91	14*	62	16*		9	0	0	0	1.23		.66	29	.0	0		4	1	0					
SOUTH KONA 2.31	78.6	59.3	69.0		84	22*	54	4		0	0	0	0	1.93		.60	6	.0	0		5	1	0					
WAIKAEA SCO 88.2														14.10		1.96	24	.0	0		22	10	4					
ISLAND			71.0											6.16				.0										

SEE REFERENCE NOTES FOLLOWING STATION INDEX

## MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

HAWAII AND PACIFIC  
MAY  
1978

STATION		TEMPERATURE										PRECIPITATION																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
		AVERAGE MAXIMUM	AVERAGE MINIMUM	AVERAGE	DEPARTURE FROM NORMAL	HIGHEST	DATE	LOWEST	DATE	DEGREE DAYS	NO. OF DAYS				TOTAL	DEPARTURE FROM NORMAL	GREATEST DAY	DATE	SNOW, SLEET			NO. OF DAYS																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
											MAX.	MIN.	32° OR ABOVE	32° OR BELOW					32° OR ABOVE	32° OR BELOW	TOTAL	MAX. DEPTH ON GROUND	DATE	-10 OR MORE	-50 OR MORE	-1.00 OR MORE																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
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SEE REFERENCE NOTES FOLLOWING STATION INDEX



# DAILY PRECIPITATION

HAWAII AND PACIFIC  
1978

STATION		TOTAL	DAY OF MONTH																																
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
HAWAII																																			
* * *																																			
ISLAND OF KAUAI																																			
ANAHOLA 1114	A	5.70	.27			.85	x		.25	.07				x	x	.57	.25		.60		x	x		.73	2.05				x	x	.15				
64YDS4000 STA 885	A	4.06	.11	.02		.47	.23	x		.10	.11			x	x	1.37	.34	.02				x	x		.39	.92	.02		.05	.06	x	x	.42	.07	
EAST LAHAI 934	A	7.05	.37			.05	.11	x		.25	.26	.01	.02		x	x	2.22	.33	.03				x	x		.57	1.24	.03	.13	.08	x	x	.82	.10	
ELELEE 927	A	2.69	.04	T		.10	.15			.07			T		x	x	.44	.02				x	x		.32	.76	.01	.01	.06	x	x	.60	.13		
HALAUE 1110	A	5.75	.19			.65	x		.35	.10					x	x	.60	.46		.40			x	x		.57	1.87			x	x	.46	.02		
HALEMANAHO 1006	A	6.85	.18	.19			.23	x		.74	.18		.03		x	x	1.98	.67	.04			.14	x	x		.29	1.24	.07		.08	x	x	.67	.08	
HANALEI TUNNEL 1053	A	18.00	x	x	x		.73	x	x		x	x	x	x	x	x						x	x	x		1.44		.04	x	1.55	.73	.04	16.00		
HUKIO 945	A	4.82				.07	.77										.07												.04				.11		
ILILIULA INTAKE 1050	A	21.01	.64	.42	.11	.04	.42	x	1.81	.25		.05	.14		x	x	3.71	1.78	1.76	.67		.06	x	x		.91	1.17	.10	.07	.27	x	x	5.41	1.03	
INTAKE WAIHINA PK 1086	A	14.39	.23	x			x	.90					.74	2.86	x	5.88						x	x	x				.73		.06	x	x	1.11		
KANALOHULULU 1075	A	3.42				.04	.85	.12		.03				.03	.04	.50	.32	.15	.05	.02	.07			.04		.03	.48	.02	.03		.40	.03	.02		
KANEHA RESERVOIR 1092	A	14.27	.40	.37			.95	x	1.75	.20			.10		x	x	2.20	1.25	.10	2.10		.10	x			.95	1.35	.02	.05	.05	x	x	2.20	.10	
KEALA 1112	A	5.40	.12	.30			.80	x	.35	.10			.03		x	x	.50	.22		.37						.95	1.55			.05	x	x	.40		
KEKAHA 944	A	4.23				.20	.57												.88											.64	.15	.13			
KILAUEA 1134	A	6.23	.18	.08	.05	.28	.24	.98	.07	.09	.04	x	.07	.08	.09	.30	1.53	.18	.21	.17	x	.07	.27	.50	.63	.02	.04	.03	.03	x	x	x			
KILAUEA POINT 1133	A	5.72	.15	.15		.25	.56		.24	.10	.07	.01	.01		x	.42	.53	.48	.04	.23	.01		.09		.24	1.85	.04	.02	.02	.01	.18	.04	.01		
KOLO 1033	A	2.17				.15	.32			.36	.20	.02			x	x	.70	.43	.05							.92	1.54	.10	.13	.10	x	x	.96	.05	
KOLOA 936	A	7.80	.13	.02		.13	.15	x		.06	.20	.02			x	x	2.70	.43	.05							.92	1.54	.10	.13	.10	x	x	.96	.05	
KOLOA LN (PK) 940.1	A	4.52				.13	.15	.01		.01	.01			.15	.39	.39	.02					.55			.03	1.18	1.17	.20	.20	.09	.15		.04		
KOLOA MAUKA 994	A	9.32	x	.81	x	x	x	x	x	1.27		x	x	x	x	x	3.66	.07	x	x	x	x	x	x	x	x	1.73	.12		x	x	x	1.57	.09	
KUKULUA 935	A	4.49	.05			.09	.17	T	x	.10	.05	.02		x	x	1.29	.13					x	x		.77	1.43	.01	.01	.04	x	x	.25	.06		
LIHUE VARIETY ST 1052.1	A	8.20	.09	.14		.07	1.03	x		.97	.06	.05		x	x	1.87	.57	.07			.03	x	x		.93	1.26		.07	.08	x	x	.80	.05		
LIHUE 1020	A	4.87	.07	.06			1.10	x		.38	.06	.02	.04		x	x	1.13	.21		.17					.34	.72	.01	.14	.02	x	x	.31	.12		
LIHUE WSO 1020.1 AP	A	4.56	.02			1.04	T	.17	.08	.03	.02	T	.03	.02	.20	.24	.21	.01	.07	.01	.89	.01	.28	T	.74	T		.02	.21	.01	.08	.06	T	.11	
MAKAOLEI 865	A	1.62				.01	.04								.07	.05	.21					.03	.07			.76	.01	.02	.02	.42			.03	.09	
MAKA 1028	A	2.47				.02	.32							.11		.19	.15					.15											.01		
MAHINI UPR CR055 1083	A	11.90	x	x	x	x	x	x	11.90	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x		
MOLOAA 1145	A	7.70	.89	x		x	x	x	x	x	x	x	x	x	x	x	2.83								2.41	x	x	x	x	x	x	x	1.57	x	
MOUNT WAILALEA 1047	A	2.30																																	
NIU RIDGE 1035	A						.16										.46	.26														.46			
N WAILUA DITCH 1051	A	20.35	.03	.25	.17	.11	.54	x	1.62	.31	.04	.02		x	x	2.86	1.92	.80	.83		.08	x	x		.77	2.46	.07	.28	.24	x	x	3.95	.96	.94	
N WAILUA RIVER 1055	A	11.80	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	11.80		
PH WAIHINA 1115	A	14.65				T	4.11	x	2.70	.24	x	.36	.01	x	x	5.53	.78	.01	.29		.03	x	x		.05	.32	T	.01	x	x	x	.18			
PRINCEVILLE RANCH 1117	A	9.76	1.08	.02		.85	x		2.70	.15	.02	.05	.05									x	x		2.74	1.32	.01	.07	.02	x	x	x	.18		
PUEHU RIDGE 1040	A	6.36				.10	.77									.05	.20					.05									3.40		.08		
PUIHI 1013	A	3.40	.10			.15	.03	x	.04	.06	.02			x	x	1.17	.08					x	x		.38	1.03	.01	.24	.01	x	x	.03	.02	.03	
WAILUANA 930	A	4.58	.05	T	T	.35	.28	x	T	.14	.01	.02		x	x	.95	.06					x	x		.35	.91	.02	.02	.04	x	x	.46	.20	.72	
WAILUANA LOWER 1054	A	15.51	.10	.33	.05	.04	.46	.22	.43	.49	.14	.06	.04	.97	.82	1.21	1.86	.57	.24	.06	.28	.46			.04	1.70	.08	.14	.36	1.01	1.99	.34	.81	.11	
WAILUANA UPPER 1052	A	15.79	.12	.59	.04	.06	.31	.26	.98	.10	.20	.03	.06	1.26	1.35	1.47	2.10	.73	.02	.05	.10	1.00			1.10	.05	.12	.30	x	x	2.25	.10	.82	.22	
WAILUANA 943	A	3.28				.11	.65											.19												.37	.05	.53			
WAILUANA KAI 1065	A	4.73	.05	.19		.64	x		.54	.02	.04	.02		x	x	.85	.16		.02		x	x		.40	1.12	.16	.07	.03	x	x	.36	.06	.01		
WAIKANE 947	A	3.73				.05	.75														.57										.64	.61	.02	.64	
WEST LAHAI 931	A	5.68	.06			.20	.21	x	.09	.10	.05			x	x	1.40	.17					x	x		.70	1.20	.04	.05	.06	x	x	.65	.08	.01	
* * *																																			
ISLAND OF OAHU																																			
ALBANY STADIUM-HALAWA	A	3.12		.04	.03	.04	.24			.01	.01		.01		x	x	.32	T			.19	x	x		.55	.61	1.19	.02	.01	x	x	x	.17		
GETEMANIA PUMPKIN STA	A	4.36	.06									T	.07		x	x				.05	.10				.72	2.50	.20	T			x	x	.20	T	
B Y U LAIE 903.1	A	8.74				1.00	1.50	T	.30	.06			.04		.03	.02	.60				.15	.15	.09			2.20	2.30	.10	.05	T				.01	
CAMPBELL LND PK 702.5	A	6.58				.85	.82								T	.05	.60				.08	.15	.10			.14	1.44	.75	T						
COCONUT ISLAND 840.1	A	6.26	.04	.22	T	.01	.37	x	1.05	.01		.01			x	x	.20	.09	x	.13		.76	x	x		1.11	1.25	.67	T	x	x	x	.22	.12	
EWA PLANTATION 741	A	2.94				.07	.71					.01	x	x	.04						.07	x	x												

HAWAII AND PACIFIC  
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STATION		TOTAL	DAY OF MONTH																																
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
HAWAII																																			
MAHANA 684	A	1.10	x	x	.40	x	x	x	x	x	x	x	x	x	x	.28	x	.70	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x		
MAHUKA 678	A	1.70	x	.42	x	x	x	x	x	x	x	x	x	x	x	.28	x	.70	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x		
MAJAKEAKUA 685	A	1.80	x	x	x	x	x	x	x	x	.70	x	x	x	x	.16	x	x	x	x	x	x	x	x	x	.15	.46	x	x	x	x	.33	x		
ISLAND OF MAUI																																			
AUAKAI 252	A	3.38	x	x	x	x	x	x	x	x	x	1.35	x	x	x	x	x	x	x	x	x	x	x	x	x	1.80	x	x	x	x	x	.44	x		
HALEKAL 477	A	11.20	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x		
HALEKAL 8 E 5 434	A	5.14	.05	x	x	.05	2.42	x	.02	.01	x	.01	.07	.20	.65	.02	.01	x	x	x	.08	.62	x	x	.44	.34	.01	.03	.10	x	x	x	x	x	
HALEKAL 8 B 5 434	A	3.88	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	.33	.34	.44	x	x	x	x	x	x	x	x	
HALEKAL 8 C 5 434	A	2.81	T	T	x	.04	.08	.61	.42	2.37	x	x	x	.03	T	.09	T	x	T	x	.05	T	x	.33	.07	.12	.02	.12	T	x	x	.02	x	x	
HALEKAL 8 D 5 434	A	3.85	x	x	.05	x	x	1.93	x	x	x	x	.05	.02	x	.37	.02	x	x	x	x	x	x	.05	.08	1.65	x	x	x	x	x	.01	x	x	
HAMAKUAPONO 405	A	5.37	.02	.08	T	.08	2.09	1.46	.01	.08	.08	.05	.08	.12	.68	.18	.07	.24	x	x	x	x	.05	.08	1.65	T	.06	T	x	x	.05	T	x	x	
HAMA AIRPORT 355	A	14.00	.01	.30	.04	.08	2.09	.08	.05	.15	x	x	x	.25	.58	.07	.07	.24	x	x	x	.30	.01	.05	.02	7.75	x	x	x	.10	.10	.58	.18	.08	x
HOLUA CABIN 250.5	A	2.20	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	2.20	x	x		
HONOKOHU 480	A	13.60	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	13.60	x		
HONOKOHU 483	A	4.50	.25	.15	.12	x	.04	x	x	1.30	.08	.06	x	.04	x	.46	.10	x	x	x	x	x	x	1.05	.03	.75	.03	x	x	x	x	.05	x	4.76	x
HONOLUA FIELD 40 484	A	4.76	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	4.76	x	
HONOLUA GULCH 341	A	6.00	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	6.00	x	
KAHANAPI 4P 453.1	A	2.66	x	.01	x	x	.84	.02	.01	x	x	x	.05	.01	x	.04	.01	x	x	x	.01	x	x	.94	.33	.55	x	x	.02	x	.02	x	3.00	x	
KAHANAPI INTAKE 374	A	3.00	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	3.00	x	
KAHULUI WSO 380 AP	A	.82	x	x	x	.25	.09	x	x	x	x	.0	.09	.02	.03	.03	T	x	.01	x	x	.22	x	.07	x	x	.01	x	x	x	x	8.27	x		
KAHULUI 436	A	8.27	x	x	x	x	x	x	x	x	x	.10	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	8.27	x	
KAILUA 446	A	16.87	.56	.28	.05	.13	x	2.82	.17	x	1.31	.11	x	.11	x	2.00	.44	.55	.01	x	x	.48	x	.88	.03	1.40	.05	.08	x	.23	.01	x	1.00	x	
KAILUA INTAKE 375	A	4.74	x	x	x	.18	x	x	x	x	x	1.84	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x		
KEANAHU 410	A	2.18	x	x	x	x	1.71	.04	x	x	x	x	x	.01	.04	T	x	x	x	x	x	x	x	.05	.02	.29	x	x	x	x	x	x	x		
KEANAHU 346	A	18.50	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	18.50	x		
KEANAHU BEACH 260.2	A	1.09	x	x	x	.03	.06	.01	x	x	x	x	x	x	x	x	.01	x	x	x	x	x	.02	.05	.85	.01	x	x	x	x	x	x	18.50	x	
KIHEI 311	A	1.46	x	x	x	.30	.48	.35	x	x	x	x	x	x	x	x	x	x	x	x	x	x	.19	.03	.07	.03	x	x	x	x	x	x	18.50	x	
KIPAHULU 258	A	6.46	1.47	x	x	.22	x	x	x	x	.31	x	x	.43	.26	x	.48	x	.22	.62	x	.41	x	.19	.03	.07	.03	x	x	.40	.35	.30	.52	.36	x
KUKUI 380	A	34.40	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	34.40	x		
KULA SANATORIUM 267	A	4.78	x	x	.02	.05	.12	1.32	x	x	x	x	x	x	x	x	x	x	x	x	x	x	.69	.76	.90	.01	.05	.13	x	x	.60	.03	x	x	
LAHAINA 361	A	1.43	x	x	x	.18	.06	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	.54	.57	1.13	.02	.15	.39	x	x	x	x	x		
LAUNIPUPO INTAKE 376	A	4.85	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	.46	x	x	x	x	x	x	x	x	x	x		
LAUNIPUPO VILLAGE 372	A	1.66	x	x	x	.41	.55	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	.20	.50	x	x	x	x	x	x	x	x	x		
LUPU UPPER 442	A	11.50	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	11.50	x		
MAHINAHINA 466	A	3.90	.18	x	x	.44	1.03	.04	x	x	.18	.07	x	.42	.07	x	.07	x	x	x	x	x	.58	.08	.52	x	x	x	x	x	x	.22	x		
MAHUKA 475	A	7.72	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	7.72	x		
MAKALELE FIELD 60 487	A	5.10	.40	x	x	x	x	1.31	x	x	x	x	x	x	.40	x	x	x	x	x	x	x	1.50	x	x	x	x	x	x	x	.40	x	1.00	x	
OLIMPA 332	A	8.64	x	.33	x	.16	x	2.58	x	x	.03	x	x	x	.97	x	.02	x	x	x	x	x	.41	x	x	x	x	.10	x	x	.26	.04	x	x	
OLIMPA 286.1	A	1.91	x	x	x	.99	.08	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	.11	.69	x	x	x	x	x	x	x	x	x		
PARKER 350	A	332.20	1.48	x	.86	x	.81	x	3.60	x	.51	.02	x	3.50	.56	x	1.72	.02	x	x	x	x	2.60	.02	1.91	.11	.80	x	x	.46	x	.53	x	x	
PAIA 406	A	3.60	.10	x	x	.01	T	.94	x	x	.10	.02	.05	.38	.05	.05	x	x	x	x	x	1.05	.05	.68	.01	.05	.05	x	x	.05	x	x	x	x	
PALIKU HULU 250.2	A	8.20	x	x	x	.10	x	.98	x	x	.35	x	x	x	x	.03	.05	x	x	x	x	x	x	x	x	x	x	x	x	x	x	6.20	x		
POMAKA BEIDGE 307.2	A	6.25	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	8.25	x		
POLIPOLI SPRINGS 267.2	A	6.25	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	8.25	x		
PUNOHAKA 2 343	A	.94	x	x	x	.05	.25	x	x	x	.01	T	.02	T	.02	T	.07	x	x	x	x	.29	.04	.10	.70	T	.08	.01	.01	x	x	x	x		
SPRECKELSVILLE 400.2	A	1.76	x	x	.02	.53	.06	x	x	x	.16	.02	.02	.14	.01	x	x	x	x	x	x	.10	.79	.08	.70	T	.08	.01	.01	x	x	x	x		
TYNN GATES 261.3	A	7.19	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	.28	x	.10	.79	.08	.70	T	.08	.01	.01	x	x	7.18	x	
UKULELE 333	A	7.19	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	.28	x	.10	.79	.08	.70	T	.08	.01	.01	x	x	7.18	x	
UKUPUNE 301	A	3.46	x	x	1.36	.07	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	.63	.11	1.55	.05	.11	1.55	x	x	x	x	.34	x	x	
ULUPALAKUA RANCH 250	A	2.70	.06	x	x	.28	.17	x	.57	x	.03	x	.03	x	.04	x	.10	x	x	x	x	.65	.85	.47	.03	x	x	x	x	.41	.15	x	x		
WAHIKULI 364	A	2.67	x	x	.12	.80	.18	.02	.19	.02	.10	.07	T	.07	.09	.12	.05	x	x	x	x	.90	.03	.11	.86	.07	.57	x	x	x	x	.15	x	x	
WAIEHU CAMP 484	A	3.97	.05	x	.15	1.25	.47	.04	x	x	.17	x	.25	.07	.09	.12	.05	x	x	x	x	.90	.03	.11	.86	.07	.57	x	x	x	x	.15	x	x	
WAIPAKI 440	A	18.30	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	1.08	.15	.10	.03	.01	x	x	x	x	x	18.30	x	x	
WAILUKU 380	A	2.27	x	x	.14	x	.64	x	x	x	x	x	x	x	x	.05	.07	x	x	x	x	1.08	.15	.10	.03	.01	x	x	x	x	x	18.30	x	x	
WAILUKU 380	A	1.31	x	x	.05	x	.48	.01	x	.02	.02	x	.10	.03	.07	x	x	x	x	x	x	1.08	.15	.10	.03	.01	x	x	x	x	x	18.30	x	x	
WAIKAPU RANCH 256	A	1.82	x	x	.62	x	x	x	x	x	x	x	x	x	x	.03	.07	x	x	x	x	1.08	.15	.10	.03	.01	x	x	x	x	x	18.30	x	x	
ISLAND OF OAHU																																			
AHUA UHI 75	A	1.18	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	1.18	x	
CITY OF REFUGE 27.4	A	2.03	x	.18	.03	x	.30	.22	x	.02	T	.06	x	x	.25	.08	.20	x	x	x	.20	.05	.12	.05	.12	.05	.12	x	x	.78	.05	x	x	.05	x
HAINA 214	A	2.61	.83	.36	.18	.02	.60	x	.25	.26	.02	.53	.02	x	.																				

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# DAILY PRECIPITATION

HAWAII AND PACIFIC  
MAY 1978

STATION	TOTAL	DAY OF MONTH																															
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
HAWAII																																	
MOUNTAIN VIEW 91	V22.19	1.42	.98	.12	.09	.12	x	x	1.38	.20	.04	.36	.32	x	x	.77	1.28	.43			x	x	.20	.07	.53	.73	.67	x	x	1.82	.26	.32	
MAALEHU 14	A 3.76	.36	T	.69	.10	x	.21	.02						x	x	x	.09	.25	.01		x	x	x	.03	.04	.16	.02	.31	.58	.15	.44	.21	.08
NAPOOPOO 28	A 4.52	1.13	x	x	x	x	x	1.07	x		x	x	x	x	x	.14	x	x	x		x	x	x	.01	x	x	x	x	x	x	1.27	x	
OKALA 223	3.76	.10	.54	.02	.03	.01	T	T	.04			.69	.33	.07	.15	.08	.43	.05		.01	x	x	.20	.30	.57	.14	T						
OPINIHOLE 2 24.1	9.89	.51	.02		.18	1.70	1.30	.18	T	.08	T	.13	.62	T	.12		.01	.07	T	T	.20	.22	T	3.32	.01	.31	.04	.44	.11	.26	.04	.01	
PECHIO LAGO EST 91.5	A 7.57	x	x	x	x	2.92	x	x	x	x	x	1.52	x	x	x	x	x	x	x	1.99	x	x	x	x	x	x	1.14	x	x	x	x		
PAUHAU 217	1.81	.11						.01			.69	.01	.05	.19	.02	.09	.07					.14	.42									.01	
PAUULU 221	1.44	.05	.01	.10				T	T		.17	.36	.05	.02	T	.09	.06					.40	.01	.10	T								
PAHALA 21	A 5.36	.03	.04	.23	.05	.29	.04									.11	.40					.37	.09	1.52	T	.57	.12		.82	.22	.46		
PAHOA 65	V21.92	2.10	.27	.11	.95	1.59	x	x	1.61	.31	.07	.11	x	x	.87	.68	.14					.18	.50	.20	.14	x	x	1.25	.50	1.05	1.05		
PAPAIKUBU 144.1	10.40	1.00	.30	.04	.23	.01	x	x	.27	.22	.09	.46	x	x	1.01	1.25	.07			.01	x	x	.70	2.37	.27	.72	x	x	1.08	.20	.10		
PAPAIKUBU PUKA 140.1	14.82	1.69	.58	.06	.10	.15	x	x	.67	.42	.80	.07	x	x	.90	1.78	.09			.01	x	x	.36	3.52	.50	1.05	x	x	1.56	.29	.22		
PINIKUHA 89	10.60	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	19.60		
PUUKOHOLA HEIAU 98.1	1.23	x	x	.05	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	.22	x	x	x	x	.13	x	.66	.02		
PUU LEHUA 73	A 1.70	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	1.70		
SOUTH KONA 2.31	1.93		.02		.06	.03	.60			.01						.05		.04					.38	.16			.08		.16	.07	.27		
SOUTH POINT CORRAL 3	A -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
UPULU POINT USCO 159.2	2.14	T	.11	.15				T	.03		1.08	T	.10	.48	.09					.10	-	-	T						T				
WAIKAEA SCO 88.2	14.10	.23	.85	.23	.06	.01	.90	.03	.26	.07	.03	.35	.46	.32	.26	.36	1.21	.32		.05	.52	.08	.15	.06	1.96	1.47	1.31	.77	.90	.16	.23	.50	
WAIKALOA-BOIS CRS 95.8	1.23	T	.02		.18															.10	x	x	.54			.04	.35						

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# DAILY PRECIPITATION

HAWAII AND PACIFIC  
PORT  
1978

STATION	TOTAL	DAY OF MONTH																																
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
PACIFIC																																		
* * *																																		
EAST OF 180TH MERIDIAN																																		
ATU-U	14.00	4.03	.50	1.32				1.93	.11	.27	.21	.10	1.82	.21			.63	.04			.44	.12	.63		.06		.63	.62	.10	.03				
CANTON ISLAND	.92	.16	.02														.09	.06			.01	.11					.31							
FALEASAO VILLAGE	23.81	2.07	2.72	.88	1.01	1.05	3.04	.62	.54	1.91	.04	.75	.29	.36	.97	.17	.53	1.08	.36	.84	.70	.25	.90	2.11										
JOHNSTON IS WSO AP	1.01	T	T		.01		T	.01	.02	.09	.08	.02	.14	T	.02	.01			.03	.08	.01	T	.31	.15	T		.03	.38	T	T	T	T		
LEONE	9.15	1.70	.14	.13		.02	.11	.87	1.13	.84	1.12	.60		.10	.20		.01				.06	.08	.08		.10		.03	.38		.13	.32	.05	.15	
FRENCH FRIGATE SHOALS	6.83				.56		.05				.01	.08	.07	.02			.50	.46			.03	.01	.22		.69	.19	.13	.56	2.09	.50	.06	.30	.02	
MIDWAY SAND ISLAND	.72	.04	.02	.10		T	.05	.03	.18	.01	T			.21									.02				T	.01	.05					
PAGO PAGO WSO AP	6.71	3.38	.10	.04		.03	T	T	.59	1.40	.03	.86	.10		.07	.05	T			.92	.47	.01	.01	.11			.16		T	.11	.01	.28		
* * *																																		
WESTERN PACIFIC ISL.																																		
NORTH OF 12 N																																		
ANDERSEN AFB GUAM	2.63	T	.47	.09	.02	.18	.19	.03	.15	.10	T	T	T				.03	.41	T	.01	.10	.04	.10	T	.46		.14		.11	T	1.06	1.45	.05	.84
CLARK AFB LUZON	5.97	.03				.16					T			T	T			.30	.01		T	.82	T	.17	1.06									
GUAM NAS	3.88		.09	.08		.15	.02	.07	.46	.05	T	T	T				.01	.04	T	.02	.03	.04	.28	.02	.15	.14	.06	2.08		.09				
GUAM WSO	3.48	.01	.26	.02		.32	.46	.15	.19	.15	.01	.02	T			.01	.09	.19	T	.08	.17		.14	.12		.17	.01	.82		.06				
HANDILAO	5.36	.33	.03	.09	.09	.32	.11	.03	.30	.02							.03	.10			.23	.05	.02	.49	.05	.35	.14	.50	1.66	.42				
ROTA	3.05	.13	.11	.02					.01	.01		.02		X	X	.15	.16	.11	.07	.03	X	X	.83	.24	.16	.04	.24	X	X	.32	.17	.13		
SAIPAN LOBAN																																		
WAKE ISLAND WSO AP	2.35	T	.13	.01	.10	.01		T			.04	.22	.28		.04	.01	.01	.10	.26	.50	.01		.03	.20		.05	T		.04	.31				
* * *																																		
CAROLINE AND MARSHALL ISLANDS																																		
ANGUAD																																		
ELEUTAK	3.66		.91	.57	.01	.30				.06	.27					.06		.03	.20		.05	.20	.25				.42				.25	.08		
FALALOP I ULITHI ATOLL																																		
KAPINGAWANGI ATOLL																																		
KOROR WSO	12.52		.02	.09	.14	.23	.70	.46	.78	1.32	1.06	1.20	.83	.12		.12	1.27	.01	2.01	.05							.01	.01	1.94	.05				
KWAJALEIN MISSILE RGN	15.81	3.27	2.27	T	.07	.67	T	.11	.06	.06	T	.88	T			.32	.70	.08	.03	.01	.11	1.82	T	.44	.22	.97	3.26		.01	.36	.03	.05		
LELE I KOSRAE																																		
MAJURO WSO AP	13.90	.52	.03	2.66	.01	.02	.10	.20	.05	.08	.06	.35	.09	.04	.45	.23	1.25		.37	.90	.21	.18	1.17	.54	.08	1.82	.54	.09	.05	.46	.95	.39		
METALANIM	8.31		.03	.02	.29	.43	.47	.18	.21	1.26	.08	.04	X	.60	.10	.18	.24	.29	.37	T	1.47	.14	T		T	.60	.79	.21	T		.59	.07		
MOKIL ATOLL																																		
NGASANG-SABELTHUAP																																		
PONAPE WSO	12.82		.03	.04	.79	.11	1.28	.41	.92	1.93	.20	.03	.14	.54	.04	.22	.06	.10	T	1.55	.95	.18	T	.05	.06	1.65	.04	.95	.04	.34	.11	.06		
SATAWAN ATOLL																																		
TRUK, MOEN I. WSO AP	13.25	1.74		.57	.53	.40	.16	.14	1.44	.98	.43	.48	.06	2.01	.02	.08	.53	.10	.83	1.47	.03	T	.76	.19	1.35	.01	.03	.28	.34	.15	.13	.17		
WOLEAI ATOLL	8.08	.12	.19	.07	.01	.10		.25	.10	.21	.81		.21				.23	.41	.31	.29	.27		1.80	.66	.01				.15			.09		
YAP WSO AP	4.87	.26	T	.22		.25	.08	.08	.09	.09	.06	.08	.01	.46	.37	.11	.21	.03	.16						1.54	.24	.45	.06	T		.01	T		

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# DAILY TEMPERATURES

HAWAII AND PACIFIC  
MAY 1978

STATION		DAY OF MONTH																															AVERAGE
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
HAWAII																																	
ISLAND OF KAUAI																																	
KANALOHULU 1075	MAX MIN	71 52	73 52	76 48	68 53	64 52	69 55	75 58	72 57	70 55	70 55	66 56	65 54	68 56	68 55	66 57	69 52	70 48	69 51	68 47	70 53	71 55	70 49	65 52	70 54	70 57	70 55	71 52	71 52	70 49	68 47	72 48	69.5 52.8
KILAUEA POINT 1133	MAX MIN			80 71	86 70	83 65	76 67	76 66	82 70	81 70	81 70	80 70		81 71	80 69	76 67	81 71	85 68	81 68	81 70	84 70	85 69	82 66	80 62	82 73	79 73	82 73	82 73	82 73	83 70	84 71	84 68	81.3 69.2
KOLOR LN (MAKI 940.1	MAX MIN	84 71	86 73	87 70	89 71	87 70	83 69	85 72	84 73	83 72	84 74	83 71	83 73		70 70	70 71	82 71	81 71		90 69	89 69	87 69	86 70	88 68	88 73	84 73	84 73	87 73	87 73	84 70	86 71	85 73	85.4 71.0
LIHUE WSO 1020.1 AP	MAX MIN	83 69	84 73	86 67	82 65	79 65	82 65	83 69	81 70	82 70	83 72	83 70	83 71	80 68	79 69	79 69	83 72	84 66	82 66	81 66	83 68	85 68	85 67	77 64	82 75	79 75	82 71	82 70	82 68	82 65	82 67	82.0 68.3	
NIU RIDGE 1035	MAX MIN	84 60	88 59	88 59	88 59	84 63			87 62	87 62	88 65	77 62		79 66	78 63	83 64	85 64		84 63				86 64	80 65	85 65	81 67	79 66	81 66		82 63	81 64	83 63	83.1 63.1
WAIAMI LOWER 1054	MAX MIN	78 64	74 66	74 62	76 61	75 63	71 64	75 63	74 66	72 67	74 67	74 66	74 63	73 65	75 64	70 67	69 65	71 61	75 61	72 60	70 60	76 59	76 62	75 62	70 63	74 63	75 66	75 64	75 66	76 62	77 63	73.9 63.4	
ISLAND OF OAHU																																	
ALOHA STADIUM-HALAWA	MAX MIN	83 69	86 69	84 67	90 67	86 69		80 71	84 71	78 71	83 71	81 73	82 67	83 69		70	81 69	84 67	90 67	88 68		91 68	87 69	76 67	84 68	81 72				84 67	84 67	83.9 68.9	
8 Y U LAIE 903.1	MAX MIN	83 65	84 65	84 69	83 68	83 67	82 68	83 68	85 69	84 71	83 70	82 70	82 70	82 69	83 70	83 70	85 70	84 69	83 71	83 70	84 71	84 71	83 66	79 66	83 66	82 66	85 68	84 68	85 70	84 69	86 70	86 69	83.4 68.8
HONOLULU OBSERV 702.2	MAX MIN	87 66	87 65	88 66	89 68	82 69	85 68	85 70	87 72	87 71	87 72	86 72	86 67	82 69	87 69	86 67	86 65	90 64	84 66	85 67	85 68	85 70	85 67	84 67	75 67	88 73	85 69	83 68	83 66	87 65	86 64	82 64	85.3 67.8
HONOLULU WSO 703 AP	MAX MIN	86 71	89 71	86 69	83 70	84 72	86 73	87 74	86 74	87 73	87 75	83 69	83 71	86 71	86 73	85 74	88 71	84 69	84 71	85 73	87 74	84 71	83 71	76 68	85 68	83 74	83 72	82 72	86 71	85 69	84 68	86 68	84.9 71.4
KANEHE MAUKA 781	MAX MIN	80 70	77 70	80 69	83 70	82 68	73 69	74 70	80 70	79 71	80 72	78 73	79 70	80 70	79 68	79 69	77 69	81 70	82 71	80 69	80 69	82 71	80 66	82 67	79 72	79 71	81 70	78 70	82 72	80 70	81 69	79.6 69.9	
MANOA LYON ARBORETUM	MAX MIN	77 66	75 66	82 66	83 63	83 65	80 67	75 67	79 67	78 67	79 66	74 69	76 65	75 66	76 67	74 67	75 66	81 64	85 64	82 66	85 67	86 68	80 65	84 63	72 63	78 66	80 68	80 68	79 67	83 67	81 66	80 66	79.3 66.2
OPAEULA 870	MAX MIN	80 65	79 64	80 64	80 63	80 64	79 66	76 65	80 65	82 65	76 64	75 63	73 63	74 66	76 66	77 64	75 64	82 64	84 63	84 63	80 67	80 67	79 67	80 66	80 65	84 67	80 66	82 66	82 67	80 66	79 63	79.3 65.0	
WAIALEE 896.3	MAX MIN	81 70	79 70	82 68	84 69	79 68	73 69	78 71	81 72	80 70	80 67	81 72	80 71	79 69	80 68	78 69	78 68	80 68	82 68	80 70	82 69	80 67	84 66	76 66	81 73	79 71	81 72	81 70	81 70	82 68	81 68	80.2 69.4	
WAIALUA 847	MAX MIN		82 61	87 61	86 60	87 63	84 65	83 63	84 64	83 64	84 64	82 67	80 68	76 64	80 66	78 66	81 67	82 60	83 64	82 66	82 66	80 66	82 65	75 64	86 67	81 68	81 68	82 68	82 62	84 61	85 62	82.2 64.7	
WAIKIKI 717.2	MAX MIN	85 67	84 68	87 63	87 64	85 67	84 68	84 68	85 69	85 70	85 69	85 66	85 66	85 66	86 69	86 68	85 66	87 67	88 67	85 70	87 70	88 72	85 73	87 67	88 72	85 73	85 71	86 70	86 70	86 67	85 66	85.3 68.4	
ISLAND OF MOLOKAI																																	
MOLOKAI AP 524	MAX MIN																																
ISLAND OF LANAI																																	
LANAI AIRPORT 656	MAX MIN																																
LANAI CITY 672	MAX MIN	76 61	76 62	76 63	80 62	78 68	73 66	79 67	77 63	74 60	80 65	70 62	78 64	76 67	76 66	73 63	73 63	75 64	80 63	80 64		80 63	80 66	75 66	80 67	75 65	77 66	77 65	78 65	75 63	77 65	76.7 64.3	
ISLAND OF MAUI																																	
HALEKALA RS 338	MAX MIN	66 47	68 42	66 43	60 42	59 44	62 46	62 48	64 53	69 51	70 53	71 46	65 47	63 46	64 47	61 44	62 42	63 42	62 44	64 44	65 49	64 45	58 45	63 45	67 50	65 46	66 46	64 45	64 42	62 42	60 41	63.9 45.6	
HANA AIRPORT 355	MAX MIN	81 69	82 69	81 71	82 71	85 69	82 69	82 69	82 70	80 72	83 70	84 72	82 68	82 69	80 69	81 68	77 69	82 67	82 67	86 68	84 71	83 73	80 73	84 69	83 74	82 70	82 70	82 68	82 68	83 69	81 67	82.4 69.7	
KAAHPALI AP 453.1	MAX MIN	84 62	83 69	84 68	83 67	82 69	84 69	81 68	84 71	83 71	84 72	83 67	82 69	82 69	83 68	82 67	82 67	84 67	85 67	83 69	82 67	82 67	75 66	83 71	84 70	82 68	84 68	83 67	83 66	82 66	82.6 68.4		
KAHULUI WSO 398 AP	MAX MIN	86 64	92 69	89 65	88 68	84 72	82 73	87 72	85 72	87 73	85 73	84 73	84 70	83 71	86 71	83 72	84 69	87 67	86 67	89 69	91 69	89 71	87 70	82 72	90 68	89 74	89 73	90 71	89 69	89 68	84 67	86.7 69.9	
KAILUA 446	MAX MIN	76 67	78 68	77 67	79 68			78 66	76 68	77 69	76 69	76 65		77 65	77 67	79 64	81 65												79 67	78 66	78 66	78.2 67.4	
KEAWAKAPU BEACH 260.2	MAX MIN	88 62	87 60	88 67	87 68	86 71	87 69	85 69	91 64	88 65	90 64	88 65	88 66	88 64	89 67	86 66	87 65	86 68	86 67	88 68	89 67	89 67	89 67	85 67	86 67	89 70	89 70	85 70	88 69	86 65	86 66	87.6 66.6	
KULA SANATORIUM 267	MAX MIN	71 59	71 57	72 58	73 62	72 61	71 62	70 61	72 59	73 60	74 60	74 58	73 58	72 56	72 57	71 58	72 59	71 62	73 62	75 62	73 63	75 62	75 62	74 63	75 62	72 60	73 61	69 60	71 57	69 56	73 56	72.2 59.7	
LAHAINA 361	MAX MIN	85 70	85 68	85 68	87 68	85 72		87 71	87 71	85 67	86 67	88 67	87 67	86 71	84 72	84 71	85 67	88 68	88 67	87 68	88 74	85 76	87 65	80 65	85 70	85 70	87 70	86 69	85 71	84 66	84 67	85.6 69.3	

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	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31				
HAWAII																																			
ISLAND OF HAWAII																																			
HAWAII VOLCNS NP NO 54	MAX MIN	67 53	69 54	69 49	73 59	70 59	67 56	71 54	69 53	69 52	69 54	69 55	68 51	69 54	70 54	67 52	67 55	71 55	70 54	70 52	75 51	76 57	69 57	74 52	73 57	71 55	68 55	71 57	64 55	66 55	69 53	67 54	69.6 54.3		
HILO W50 AP 87	MAX MIN	83 68	84 69	85 69	84 72	85 70	85 68	84 69	84 69	83 69	82 69	83 69	82 70	84 68	81 68	76 68	82 69	85 71	87 67	87 68	86 68	85 71	87 68	84 70	80 70	83 68	79 69	83 68	84 69	79 69	83 68	83.4 68.9			
KAINALIU 73.2	MAX MIN	75 61	76 60	78 62	79 60	78 64	77 61	78 61	77 62	75 62	78 63	77 64	79 59	75 60	74 60	77 61	79 63	80 59	78 60	81 62	82 63	82 64	80 62	79 61	81 61	80 66	73 64	75 63	74 60	80 60	77 60	78 63	77.8 61.6		
KAMUELA 192.2	MAX MIN	76 53	75 61	76 61	78 52	77 58					77 59	71 59	68 58	72 58	69 58		71 60	70 60	76 54	80 56						82 57	76 55	80 55	74 63	73 61		79 58	72 59	76 61	74.9 58.1
KAPOHO BEACH 93.11	MAX MIN	84 67	84 71	87 68	85 70	83 71	86 71	85 70	86 68	83 70	85 70	85 72	85 72	85 67	84 68	80 66	85 70	86 70	85 70	89 70	90 72		89 71	87 70	85 74	88 75	88 69	85 70	87 69	86 67	84 70	83 66	85.5 69.8		
KONA (KAILUA) 68.3	MAX MIN	85 70	83 69	86 70	86 70	82 71		84 71	82 69	86 72	84 73	84 70			86 72	84 69	85 70	86 70	85 71					82 70	86 70	88 70	85 73	83 71				85 79	85 71	84.6 71.0	
KULANI CAMP 79	MAX MIN	62 48	64 49	62 46	69 50	69 50	63 49	62 48	65 49	64 46	63 51	63 51	63 47	63 49	64 52	66 45	60 48	65 49	67 47	66 48	70 46	69 50	70 49	70 47	71 54	70 52			73 54	63 51	63 46	62 51	65.6 49.0		
MAUNA LOA SLOPE OBS	MAX MIN	55 38	58 43	57 41	54 38	50 37	53 36	58 37	61 43	56 40	58 40	59 40	56 37	56 37	55 39	58 39	54 37	55 38	52 38	52 39	50 39	48 36	47 35	52 35	52 37	52 39	51 38	47 36	48 35	51 34	53 35	52 39	53.5 37.9		
MOUNTAIN VIEW 91	MAX MIN	79 61	77 62	77 60	79 62	79 62					80 61	78 62	77 62	76 62	74 62		77 61	69 63	78 63	79 63	80 61				82 61	82 63	80 64	76 65	72 63		78 61	77 61	74 62	77.4 62.0	
NAALEHU 14	MAX MIN	77 66	77 64	78 65	79 66	79 67	76 67	74 64	79 63	79 66	79 68	80 68	78 65	77 65	77 64	81 65	75 64	77 65	77 64	82 67	77 64	78 66	81 66	82 67	82 68	79 68	80 66	76 64	70 63	78 64	79 65	76 65	78.0 65.5		
OOKALA 223	MAX MIN	78 67	79 66	81 65	78 66	81 68	81 71	80 70	80 68	78 66	79 65	80 66	77 67	79 67	78 67	78 67	74 67	78 65	79 66	82 67	81 68	81 70	82 68	77 67	81 68	81 72	81 68	78 70	80 69	80 68	80 65	79 65	79.4 67.4		
OPIHIHALE 2 24.1	MAX MIN	76 60	82 64	82 62	83 63	78 63	78 65	79 64	77 61	82 63	78 62	80 59	77 61	81 60	81 62	78 64	80 61	79 61	81 62	82 62	83 65	81 63	80 61	81 61	82 67	78 67	76 65	78 64	79 62	78 61	78 65	79 63	79.6 62.7		
PUUKOHOLA HEIAU 98.1	MAX MIN	91 63	88 62	87 69	88 64	85 70	90 72	90 70	89 65	89 63	88 65	88 64	82 64	91 63	91 62	90 62	89 62	88 71	87 69	87 69	90 71	88 71	88 71	87 68	89 73	89 71	88 73	89 71	88 73	87 68	87 67	87 69	88.4 67.4		
SOUTH KONA 2.31	MAX MIN	78 55	80 56	79 55	77 54	76 62	82 58	80 62	82 64	80 58	84 60	84 62	76 56	79 56	79 57	75 57	74 58	81 59	77 58	77 59	82 60	83 63	84 61	82 61	79 62	78 64	78 64	77 62	75 59	76 58	72 57	71 61	78.6 59.3		
UPOLU POINT USCG 159.2	MAX MIN	83 68	83 68	86 70	85 70	84 69	85 70	85 71	85 69	83 70	83 68	83 65	81 70	82 69	81 66	81 69	79 69	83 67	85 70	83 71	86 69	86 77	87 70	85 69	87 71	85 71	85 70	85 72	85 70	84 67	87 69	85 68	84.1 69.4		

SEE REFERENCE NOTES FOLLOWING STATION INDEX

# DAILY TEMPERATURES

HAWAII AND PACIFIC  
MAY 1978

STATION		DAY OF MONTH																															AVERAGE	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
PACIFIC																																		
EAST OF 180TH MERIDIAN																																		
CANTON ISLAND	MAX MIN	90 80	89 80	89 81	88 80	90 82	90 82		91 80	91 80	91 80	91 79	91 79	90 79		90 82	90 79	90 79	89 80	89 81		89 80	90 80	91 80	90 78	90 80	90 77			89 80	88 80	89.8 80.0		
JOHNSTON IS WSO AP	MAX MIN	83 77	82 76	83 76	80 76	81 75	83 74	83 77	83 75	82 76	82 77	82 77	82 75	81 78	82 77	81 77	83 76	82 76	81 74	83 76	83 76	83 74	82 73	83 76	84 78	84 76	84 77	83 77	84 77	84 79	84 78	82.6 76.2		
LEONE	MAX MIN	84 80	89 81	92 87	91 84	89 82	87 79	87 80	90 82	86 81	84 79	82 80	84 79	91 83	88 81	88 82	87 81	86 81	89 82	87 80	86 81	86 81	89 81	92 82	90 82	88 80	87 76	88 81	84 80	85 81	89 80	87 81	87.5 81.0	
FRENCH FRIGATE SHOALS	MAX MIN	84 74	82 75	82 74	78 72	73 66	77 68	75 70	80 72	83 71	83 72	84 76	83 70	81 68	82 69	82 74	81 67	80 72	77 71	79 66	83 70	82 69	80 71	84 66	80 71	81 73	78 70	78 69	81 71	81 73	77 73	83 74	80.5 70.9	
MIDWAY SAND ISLAND	MAX MIN	70 58	69 55	67 55	67 58	71 57	78 65	81 67	80 66	76 65	75 64	75 64	75 64	75 64	75 64	76 64	75 63	74 64	74 64	76 64	77 63	76 64	77 65	73 62	73 64	74 65	75 64	73 63	77 65	76 66	76 66	77 67	81 68	74.7 63.3
PAGO PAGO WSO AP	MAX MIN	81 75	87 73	87 74	88 75	87 73	84 78	85 81	84 80	84 77	84 75	81 74	83 74	82 74	85 72	85 79	86 80	86 80	85 80	85 76	83 73	85 79	86 80	87 74	86 75	85 80	84 74	86 74	83 76	85 79	84 73	86 72	84.8 76.1	
WESTERN PACIFIC ISL. NORTH OF 12 N																																		
ANDERSEN AFB GUAM	MAX MIN	84 77	82 77	84 76	84 77	84 78	83 75	82 77	83 77	83 77	83 77	83 77	84 77	84 77	85 77	85 76	83 78	84 77	84 77	83 78	84 77	84 77	84 76	85 78	85 75	82 77	84 77	84 77	84 74	84 74	86 75	83 77	83.7 76.7	
CLARK AFB LUZON	MAX MIN	93 79	93 77	95 77	97 79	93 77	91 79	93 79	97 75	93 77	97 79	95 75	93 77	91 77	95 77	97 79	95 77	95 79	93 75	95 77	97 79	91 75	88 75	86 75	88 75	88 75	91 75	86 75	79 73	86 73	77 75	91.8 76.7		
GUAM NAS	MAX MIN	87 78	88 79	87 78	87 77	86 77	86 78	87 80	87 79	87 77	87 79	87 79	88 79	88 79	88 79	88 78	87 80	87 79	88 78	89 78	89 79	89 80	89 79	88 79	88 78	88 78	88 78	87 78	89 77	90 77	89 79	87.8 78.5		
GUAM WSMO	MAX MIN	88 76	86 75	88 75	88 73	87 75	87 71	85 75	87 75	87 76	87 76	88 76	88 76	88 75	88 76	87 76	88 76	87 76	87 74	88 75	88 75	87 76	87 75	88 76	89 77	90 76	86 75	89 74	87 73	88 69	88 68	90 70	89 70	87.6 74.4
SAIPAN LORAN	MAX MIN																																	
WAKE ISLAND WSO AP	MAX MIN	84 75	86 73	87 75	85 73	85 74	86 76	91 74	85 75	85 76	86 74	83 72	85 73	87 76	87 74	88 75	87 76	86 74	84 73	85 72	85 73	83 76	83 74	84 74	86 76	86 74	84 73	89 73	88 75	85 76	86 76	87 76	85.7 74.4	
CAROLINE AND MARSHALL ISLANDS																																		
ENWETAK	MAX MIN	87 80	87 76	87 76	87 78	86 76	85 81	87 80	87 80		87 77	84 78	87 80	88 78	88 78	86 78	87 80	87 78	86 75	84 79	82 72	88 74	87 76	88 77	87 75	85 74	89 80	85 74	88 80	87 78	88 77	87 75	86.6 77.3	
FALALOP 1 ULITHI ATOLL	MAX MIN																																	
KAPINGAMARANGI ATOLL	MAX MIN																																	
KOROR WSO	MAX MIN	91 76	89 77	89 77	89 77	84 77	86 76	89 77	89 74	89 75	88 73	88 77	86 76	90 75	89 78	89 78	81 75	89 78	86 75	88 75	90 77	90 77	91 77	90 76	90 77	92 78	90 79	89 78	89 74	89 77	91 78	91 78	88.7 76.5	
KWAJALEIN MISSILE RGN	MAX MIN	83 74	83 73	85 76	87 75	86 73	87 79	87 77	86 77	87 78	87 78	87 78	88 79	86 80	85 75	87 76	87 78	87 79	86 75	83 74	86 77	87 75	83 78	84 76	80 74	89 75	88 76	87 79	86 75	86 78	85 78	85 78	85.9 76.4	
LELE 1 KOSRAE	MAX MIN																																	
MAJURO WSO AP	MAX MIN	83 74	86 75	81 74	87 77	88 75	87 75	87 76	87 74	88 75	86 76	86 75	88 75	87 77	86 75	84 75	86 76	85 77	85 75	87 75	87 75	86 75	86 75	87 75	86 75	82 74	85 75	84 76	87 76	86 75	84 74	86 74	85.7 75.2	
METALANIM	MAX MIN	87 76	87 76	88 77	84 76	88 75	87 77	88 78	87 78	83 74	88 76	88 78		88 77	87 76	88 77	87 76	87 76	85 79	87 73	89 75	88 78	89 78	88 77	88 76	89 76	87 73	85 74	87 70	87 73	86 75	87.1 75.9		
PONAPE WSO	MAX MIN	89 79	90 77	89 76	83 74	89 73	88 76	89 77	88 77	82 74	89 76	91 77	85 77	90 77	89 80	90 77	89 78	88 78	89 78	87 74	87 72	90 74	89 75	91 76	88 75	90 73	88 73	90 71	91 70	89 72	89 73	89 73	88.7 75.3	
SATAWAN ATOLL	MAX MIN																																	
TRUK. MOEN I. WSO AP	MAX MIN	87 75	88 80	86 78	86 75	87 78	88 79	88 79	87 75	83 76	88 78	85 76	87 77	89 77	89 79	90 78	89 78	87 78	87 75	84 75	88 77	89 78	88 74	88 76	89 75	84 76	88 76	86 76	89 75	88 75	90 76	89 78	87.5 76.7	
WOLEAI ATOLL	MAX MIN	90 77	90 75	90 76	89 76	87 73	86 71	86 76	91 76	86 76	87 78	86 71	89 78	83 72	86 73	86 78	89 73	88 70	89 73	90 72	89 78	90 76	90 76	89 76	90 76	89 75	90 76	89 71	89 78	89 76	89 71	86 71	88.5 74.6	
YAP WSO AP	MAX MIN	88 76	88 78	88 74	88 77	88 76	88 75	89 77	89 75	89 77	90 74	89 77	89 79	87 73	87 76	88 76	89 75	88 76	89 76	89 77	89 76	89 76	89 73	89 74	89 74	86 75	90 76	89 75	89 74	89 76	89 76	90 78	88.6 75.7	

SEE REFERENCE NOTES FOLLOWING STATION INDEX

# EVAPORATION AND WIND

HAWAII AND PACIFIC  
MAY 1978

STATION		DAY OF MONTH																															TOTAL OR AVG.	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
HAWAII																																		
* * *																																		
ISLAND OF KAUAI																																		
LIHUE WSO 1020.1 AP		EVAP	.38	.32	.40	.34	.37	.	.55	.16	.22	.43	.39	.44	.40	.31	.25	.36	.30	.22	.18	.34	.30	.15	.21	.15	.18	.24	.21	.17	.30	.29	8.85	
	WIND	188	167	154	104	102	.	293	143	176	322	263	254	259	274	251	222	125	72	99	75	95	102	97	84	171	163	134	126	121	134	101	4871	
	MAX	86	84	86	86	81	-	80	84	83	85	84	84	85	84	81	78	84	86	83	83	86	86	87	87	86	87	85	82	87	87	87	84.5	
	MIN	63	63	68	65	61	-	64	61	65	71	65	63	65	65	64	64	62	64	61	65	64	63	64	68	67	60	66	65	64	63	63	64.2	
* * *																																		
ISLAND OF OAHU																																		
HONOLULU OBSERV 702.2		EVAP	.37	.24	.42	.37	.24	.25	.20	.34	.37	.40	.40	.38	.35	.42	.30	.45	.37	.45	.40	.31	.22	.25	.36	.04	.30	.23	.24	.17	.30	.25	.19	9.58
	WIND	33	25	34	28	37	39	30	35	47	66	54	47	42	43	37	32	22	32	43	26	37	29	41	11	27	25	23	25	22	27	42	1061	
	MAX	89	86	90	96	92	90	91	93	92	92	90	90	90	90	90	88	92	94	94	94	95	85	95	72	91	85	87	85	92	90	87	89.9	
	MIN	68	66	66	67	69	68	69	68	67	67	67	66	64	69	68	67	67	68	69	70	72	71	67	67	67	69	70	67	67	66	66	67.7	

SEE REFERENCE NOTES FOLLOWING STATION INDEX

# EVAPORATION AND WIND

HAWAII AND PACIFIC  
MAY 1978

STATION		DAY OF MONTH																															TOTAL OR AVG.	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
PACIFIC EAST OF 180TH MERIDIAN																																		
JOHNSTON IS WSO AP	EVAP	-	-	.45	.47	.39	.38	.33	.36	.37	.45	.44	.32	.33	.28	.21	.28	.29	.36	.20	.30	.53	.37	.21	.27	.35	.37	.30	.29	.29	.36	.36	10.598	
	WIND	206	172	111	235	216	218	184	205	242	254	270	250	255	250	162	195	185	189	194	172	166	147	145	132	149	133	136	174	193	165	110	5815	
	MAX	-	-	-	81	83	86	89	88	85	86	82	84	85	82	82	80	89	87	84	86	88	83	83	85	90	94	92	88	90	91	92	86.3	
	MIN	-	-	-	69	67	68	68	70	70	70	70	70	69	70	72	76	71	79	76	78	77	73	73	77	79	72	72	78	71	72	73	72.5	
WESTERN PACIFIC ISL. NORTH OF 12 N																																		
GUAM WSO	EVAP	.35	.29	.36	.38	.30	.29	.21	.24	.27	.32	.28	.31	.30	.39	.33	.25	.28	.27	.11	.31	.32	.17	.35	.31	.18	.27	.18	.34	.08	.28	.23	8.55	
	WIND	173	155	173	200	207	253	179	178	124	200	190	147	152	184	150	173	171	150	121	136	163	133	152	91	227	107	46	32	29	31	65	4492	
	MAX	92	91	91	91	-	86	83	86	87	85	88	90	90	87	88	86	85	85	88	89	89	88	89	90	85	90	87	92	90	94	93	88.5	
	MIN	72	71	72	72	-	72	71	72	71	71	72	70	70	70	68	71	73	71	70	70	71	72	72	72	72	72	71	71	70	70	68	71	71.0

SEE REFERENCE NOTES FOLLOWING STATION INDEX

## STATION INDEX

HAWAII AND PACIFIC  
MAY 1978

STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES				OBSERVER
								TEMP.	PRECIP.	EVAP.	SPECIAL (SEE NOTES)	
HAWAII												
ISLAND OF KAUAI												
ALEXANDER RESV. 983	0140	02	KOLOA	2	21 57	159 32	1610				C	MCBRYDE SUGAR CO.
ANAHOLA 1114	A 0145	01	KAWAIIHAW	1	22 08	159 18	180		7A		C	LIHUE PLANTATION CO
BRYDESWOOD STA 985	A 0240	02	KOLOA	2	21 56	159 32	720		7A			MC BRYDE SUG CO LTD
EAST LAWA 934	A 0456	02	KOLOA	2	21 55	159 30	440		7A			MC BRYDE SUG CO LTD
ELEELE 927	A 0470	02	KOLOA	2	21 54	159 35	150		6A			MC BRYDE SUG CO LTD
HALAULA 1110	A 0935	01	KAWAIIHAW	1	22 07	159 19	253		7A			LIHUE PLTN CO LTD
HALENANAO 1006	A 1038	02	LIHUE	2	21 58	159 26	490		8A			LIHUE PLANTATION CO
HANAHANAPUNI 1055.2	1140	02	KAUAI	2	22 03	159 25	600				C	LIHUE PLANTATION CO LTD
HANAIEI TUNNEL 1053	A 1170	01	KAWAIIHAW	1	22 05	159 28	1218		M0			US GEOLOGICAL SURVEY
HUKIPO 945	2161	03	WAIMER	3	21 59	159 41	800		8A			KEKAHA SUGAR CO LTD
ILIILILUA INTAKE 1050	A 2222	02	LIHUE	2	22 02	159 28	1050		VAR			LIHUE PLTN CO LTD
INTAKE WAINIHA PC 1086A	2227	01	HANAIEI	1	22 09	159 34	690		WI			MC BRYDE SUG CO LTD
KANALOHULU 1075	3099	03	WAIMER	3	22 08	159 40	3600	7A	7A		C	STATE DIVISION OF PARKS
KANEHA RESERVOIR 1092	A 3104	01	KAWAIIHAW	1	22 08	159 23	830		7A			LIHUE PLANTATION
KAPAA STABLES 1104	3159	01	KAWAIIHAW	1	22 05	159 20	175				C	LIHUE PLTN CO LTD
KEALIA 1112	A 3982	01	KAWAIIHAW	1	22 06	159 19	9		7A			LIHUE PLTN CO LTD
KEKAHA 944	4272	03	WAIMER	3	21 58	159 43	9		8A		C	KEKAHA SUGAR CO LTD
KILAUEA 1134	A 4561	01	HANAIEI	1	22 13	159 25	320		7A		C	NICK RAPDZO
KILAUEA POINT 1133	4568	01	HANAIEI	1	22 14	159 24	180	7A	7A			MRS ELIZABETH MACIOLEK
KOLO 1033	4735	03	WAIMER	3	22 04	159 46	36		7A			KEKAHA SUGAR CO LTD
KOLOA 936	A 4742	02	KOLOA	2	21 55	159 28	240		8A			MCBRYDE SUGAR CO
KOLOA LN (MAK) 940.1	4748	01	KAUAI	2	21 52	159 27	52	7A	7A			AUSCG LORAN STATION
KOLOA MAUKA 994	A 4750	02	KOLOA	2	21 57	159 29	640		7A			MCBRYDE SUGAR COMPANY
KUKUIULA 935	A 4950	02	KOLOA	2	21 54	159 30	100		6A			MC BRYDE SUG CO LTD
LIHUE VARIETY ST 10621A	5560	02	LIHUE	2	22 01	159 23	380		7A		C	LIHUE PLANTATION CO LTD
LIHUE 1020	A 5575	02	LIHUE	2	21 59	159 22	207		7A			LIHUE PLTN CO LTD
LIHUE W50 1020.1 AP	R 5580	02	LIHUE	2	21 59	159 21	103	M10	M10	7AC	J	NATL WEATHER SERVICE
MAKAWELI 965	A 5864	03	WAIMER	3	21 55	159 38	140		7A			OLOKELE SUGAR CO
MANA 1026	6082	03	WAIMER	3	22 02	159 46	20		8A			KEKAHA SUGAR CO LTD
MOHIHI UPR CROSS 1083	A 6433	01	WAIMER	3	22 07	159 36	3500		M10			U S GEO SURVEY
MOLOAA 1145	A 6529	01	KAWAIIHAW	1	22 11	159 20	330		7A			THEODORE JAVELLANA JR
MOUNT WAIALEALE 1047	R 6565	03	WAIMER	2	22 04	159 30	5148		M10			U. S. GEO. SURVEY
NIU RIDGE 1035	6850	03	WAIMER	3	22 02	159 44	1250	6A	6A			KEKAHA SUGAR CO LTD
N WAILUA DITCH 1051	A 6888	02	LIHUE	2	22 04	159 28	1110		7A			LIHUE PLTN CO LTD
N WAILUA RIVER 1055	A 6893	02	LIHUE	2	22 04	159 26	650		M0			LIHUE PLTN CO LTD
PH WAINIHA 1115	8155	01	HANAIEI	1	22 12	159 34	101		6A			MC BRYDE SUG CO LTD
PRINCEVILLE RANCH 1117	8165	01	HANAIEI	1	22 13	159 29	295		9A		C	PRINCEVILLE RANCH INC
PUEHU RIDGE 1040	8205	03	WAIMER	3	22 01	159 42	1660		8A			KEKAHA SUGAR CO LTD
PUHI 1013	A 8217	02	LIHUE	2	21 58	159 24	329		8A			LIHUE PLANTATION CO
WAHIAWA 930	A 8941	02	KOLOA	2	21 54	159 34	215		7A		C	MC BRYDE SUG CO LTD
WAIAHI LOWER 1054	8958	02	LIHUE	2	22 01	159 27	565	6A	6A			LIHUE PLTN CO LTD
WAIAHI UPPER 1052	8966	02	LIHUE	2	22 01	159 28	780		6A			LIHUE PLTN CO LTD
WAILUA 943	9253	03	WAIMER	3	21 59	159 43	10		8A			KEKAHA SUGAR CO LTD
WAILUA KAI 1065	A 9467	02	LIHUE	2	22 02	159 21	50		7A			LIHUE PLANTATION
WAIMER 947	9629	03	WAIMER	3	21 58	159 41	20		8A			KEKAHA SUGAR CO.
WEST LAWA 931	A 9955	02	KOLOA	2	21 54	159 31	210		6A			MC BRYDE SUG CO LTD
ISLAND OF OAHU												
AHUIMANU LOOP 839.12	0055	01	KOOLAUPOKO	1	21 26	157 51	320				C	OR DON MITCHELL
ALOHA STADIUM-HALAWA	0172	03	OAHU	3	21 23	157 56	40	8A	8A			ALOHA STADIUM
BERETANIA PUMPING STA	0211	02	HONOLULU	2	21 19	157 51	20		9A			BOARD OF WTR SUPPLY
8 Y U LAIE 903.1	0240	01	KOOLAUPOKO	1	21 39	157 56	20	12M	12M			8 Y U-HAWAII CAMPUS
CAMPBELL IND PK 702.5	0248	02	OAHU	3	21 19	158 07	10		8A			CHEVRON U S A INC
CAMP 84 807	0300	03	EWA	3	21 26	158 04	760				C	DEL MONTE CORPORATION
COCONUT ISLAND 840.1	0350	01	KOOLAUPOKO	1	21 26	157 47	15		8A			H INST MARINE BIOLOGY
DOWSETT HIGHLDS 780.8	0438	02	HONOLULU	2	21 21	157 50	565				C	J.L. BANNING
EWA PLANTATION 741	0507	03	EWA	3	21 21	158 02	5		7A			OAHU SUGAR COMPANY
HALAWA SHAFT 771.2	0964	02	HONOLULU	2	21 23	157 54	170				C	BOARD OF WATER SUPPLY
HAWAII KAI CRSE 724.19	1308	02	OAHU	2	21 18	157 39	21				C	HAWAII KAI GOLF COURSE
HELEMANO INTAKE 881	1384	05	WAILUA	5	21 33	158 00	1274				C	WAILUA SUGAR CO INC
HOKULOA 725.2	A 1540	03	EWA	3	21 24	158 06	2260				C	WILLIAM M KIRKPATRICK
HONOLULU OBSERV 702.2	1918	03	EWA	3	21 19	158 00	5	9A	9A	9A		NATIONAL WEATHER SERV
HONOLULU W50 703 AP	1919	02	HONOLULU	2	21 20	157 55	7	M10	M10		C	NATL WEATHER SERVICE
KAENA POINT 841.3	2410	04	WAILUA	4	21 34	158 15	1240		9A			U S AIR FORCE
KAHANA 883	A 2462	01	KOOLAUPOKO	1	21 31	157 54	800		WI			WAIHOLE WTR CO LTD
KAHUKU 912	A 2570	01	KOOLAUPOKO	1	21 42	157 59	15				C	KIULIMA HOTEL

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								TEMP.	PRECIP.	EVAP.	SPECIAL (SEE NOTES)	
ISLAND OF OAHU												
KAILUA FIRE STA 791.3	2683	01	KOOLAUPOKO	1	21 24	157 45	10				C	KAILUA FIRE STATION
KALIHI RES SITE 777	R 2960	02	HONOLULU	2	21 23	157 50	910		M10			BOARD OF WTR SUPPLY
KANEHOE MAUKA 781	3113	01	KOOLAUPOKO	1	21 25	157 49	325	7A	7A			STATE HOSPITAL
KAPALAMA 773	A 3268	02	HONOLULU	2	21 21	157 52	614		8A			KAMEHAMEHA SCHOOLS
KAWAIHAPAI 841	A 3734	05	WAIALUA	5	21 35	158 11	40		7A			WAIALUA SUGAR CO. INC.
KEMOO CAMP 8 855	A 4318	05	WAIALUA	5	21 33	158 05	725		7A			WAIALUA SUGAR CO. INC.
KOOLAU DAM 833	A 4766	05	WAIHAWA	5	21 30	157 58	1160		8A			US ARMY SCHOFIELD BRKS
LULUKU 781.7	5655	01	KOOLAUPOKO	1	21 24	157 49	240				C	NATIONAL WEATHER SERV
MAKAHA PUMP 800.2	5782	04	OAHU	4	21 29	158 12	400				C	CAPITAL INVESTMENT CO
MAKAKILO 730.1	5789	03	OAHU	3	21 21	158 06	300		6A			NEAL ADAMS
MANOA 712.1	6122	02	HONOLULU	2	21 19	157 49	220		7A			CHARLES COOKE
MANOA LYON ARBORETUM	6128	02	OAHU	2	21 20	157 48	500	8A	8A			LYON ARBORETUM
MANOA TUNNEL 2 716	R 6130	02	HONOLULU	2	21 20	157 48	650		M10			BOARD OF WTR SUPPLY
MAUNAWILI 787.1	6222	01	KOOLAUPOKO	1	21 21	157 46	395				C	EXP STN H S P A
MOANALUA 770	6395	02	HONOLULU	2	21 21	157 54	20		9A			JOHN A ROXBURGH
MOUNT KAALA 844	6553	04	WAIANAE	4	21 31	158 09	4025				C	FAA
NUUANU RES 4 783	6928	02	HONOLULU	2	21 21	157 49	1048		M10			BOARD OF WTR SUPPLY
NUUANU RESERVR 5 775	A 6933	02	HONOLULU	2	21 21	157 50	410		WI			BOARD OF WTR SUPPLY
OPAUELA 870	A 7150	05	WAIALUA	5	21 34	158 02	1060	7A			C	WAIALUA SUGAR CO. INC.
PAIKO DR 723.4	7540	02	HONOLULU	2	21 17	157 44	10		6P			O L GRUBB
PALI GOLF COURSE 788.1	7656	01	OAHU	1	21 23	157 47	480		10A			CC DEPT PKS RECREATION
PALOLO VALLEY 718	R 7664	02	HONOLULU	2	21 20	157 46	995		M10			BOARD OF WTR SUPPLY
PAUOA FLATS 784	R 7810	02	HONOLULU	2	21 21	157 48	1640		M10			BOARD OF WTR SUPPLY
PEARL COUNTRY CL 760.2	7942	03	OAHU	3	21 23	157 56	120				C	PEARL COUNTRY CL8 OF HA
PUNALUU PUMP 905.2	8314	01	KOOLAUPOKO	1	21 35	157 54	20				C	NATL WEATHER SERVICE
PUNCHBOWL CRATER 709	A 8316	02	HONOLULU	2	21 19	157 51	360		8A			NAT MEM CEMETERY
PUPUKA HEIGHTS 896.4	8342	01	WAIALUA	1	21 39	158 02	900				C	JACK N. WHEELER
PUU MANAWAHUA 725.6	8500	03	OAHU	3	21 23	158 06	1690		8A			HUGH HAMILTON
TANTALUS 2 780.5	8738	02	HONOLULU	2	21 20	157 50	1325		7A			R. E. WHITE
UNIV OF HAWAII 713	A 8815	02	HONOLULU	2	21 18	157 49	79		8A			UNIVERSITY OF HAWAII
WAIHAWA DAM 863	8945	05	WAIHAWA	5	21 30	158 03	854				C	WAIALUA SUGAR CO INC
WAIHOLE 837	A 8964	01	KOOLAUPOKO	1	21 28	157 53	745		8A		C	WAIHOLE WTR CO LTO
WAIALAE KAHALA 715	9185	02	HONOLULU	2	21 17	157 47	40		7A			SPENCER TINKER
WAIALEE 896.3	9190	01	KOOLAUPOKO	1	21 41	158 02	33	8A	8A			WAIALEE LIVESK RES FARM
WAIALUA 847	A 9195	05	WAIALUA	5	21 35	158 07	32	7A	7A		C	WAIALUA SUGAR CO. INC.
WAIANAE 798.2	A 9231	04	WAIANAE	4	21 27	158 11	10		7A			BEN MAYES
WAIANA 836	A 9261	03	EWA	3	21 28	157 56	800		MO			WAIHOLE WTR CO LTO
WAIKANE 885	A 9340	01	KOOLAUPOKO	1	21 30	157 53	760		WI			WAIHOLE WTR CO LTO
WAIKIKI 717.2	9397	02	HONOLULU	2	21 16	157 49	10	8A	8A			HONOLULU ZOO
WAILUPE VLY SCH 723.6	9500	02	HONOLULU	2	21 18	157 45	180				C	WAILUPE VALLEY SCHOOL
WAIMANALO EXP FM 795.1	9523	01	KOOLAUPOKO	1	21 20	157 43	60		7A			U H WAIMANALO EXP FARM
WAIMANALO NONOKI 795.2	9534	01	OAHU	1	21 20	157 43	120				C	WAIMANALO EXP FARM
WAIKANE 892	9593	05	WAIALUA	5	21 38	158 04	330				C	WAIALUA SUGAR CO INC
WAIKANE 750	A 9738	03	EWA	3	21 23	158 01	59		8A			WAIHOLE WATER COMPANY
WILHELMINA RISE 721	R 9980	02	HONOLULU	2	21 18	157 47	1100		M10			BOARD OF WTR SUPPLY
ISLAND OF MOLOKAI												
KALAUPAPA 563	A 2896	01	MOLOKAI	1	21 12	156 59	30		8A			KALAUPAPA SETTLEMENT
KAUNAKAKAI 536	3541	01	MOLOKAI	1	21 06	157 01	12		7A			MOLOKAI RANCH LTO
KAUNAKAKAI MAUKA 536.5	3547	01	MOLOKAI	1	21 06	157 01	70				C	MOLOKAI GENERAL HOSP.
KEONELELE PENS 551	A 4394	01	MOLOKAI	1	21 12	157 12	560		VAR			MOLOKAI RANCH. LTO.
KUALAPUU 534	A 4778	01	MOLOKAI	1	21 09	157 02	825				C	OEL MONTE CORPORATION
MAUNALO 511	A 6190	01	MOLOKAI	1	21 08	157 13	1070				C	MOLOKAI RANCH COMPANY
MOLOKAI AP 524	6534	01	MOLOKAI	1	21 09	157 06	450	8A	8A			ALOHA AIRLINES
PUU O HOKU RANCH 542.1	8549	01	MOLOKAI	1	21 09	156 44	700				C	CHARLIE APIA (FOREMAN)
WAIKOLU 540	A 9404	01	MOLOKAI	1	21 08	156 55	3550		WI			MOLOKAI RANCH LTO
ISLAND OF LANAI												
KANEPUU 690	A 3130	01	LAHAINA	1	20 52	157 00	1650		WI			U S O A
KAUMALAPAU HAR80R 658	3461	01	LAHAINA	1	20 47	157 00	30		8A			OOLE COMPANY
LANAI AIRPORT 656	5275	01	LAHAINA	1	20 48	156 57	1300	8A	8A			HAWAIIAN AIR
LANAI CITY 672	A 5286	01	LAHAINA	1	20 50	156 55	1620	7A	7A		C	OOLE COMPANY
LANAIHALE 684	A 5301	01	LAHAINA	1	20 49	156 53	3370		WI			U S O A
MAHANA 694	A 5704	01	LAHAINA	1	20 52	156 55	1430		MO			U S O A
MALAEUA 676	A 6012	01	LAHAINA	1	20 46	156 55	1150		WI			KOELE COMPANY
WAIKAEKUA 685	A 9021	01	LAHAINA	1	20 47	156 52	2000		WM			KOELE COMPANY

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ISLAND OF MAUI													
AUWAHI 252	A 0175	02	HANA	2	20 37	156 20	2060		VAR			C	ULUPALAKUA RANCH
FIELO 46 474	0541	04	LAHAINA	4	20 59	156 38	1050						MAUI LANO-PINEAPPLE CO
HAELAAU 477	A 0790	04	LAHAINA	4	20 57	156 36	2980		MO			C	MAUI LANO-PINEAPPLE CO
HALEAKALA 8 E S 434	A 0995	01	MAKAWAO	1	20 51	156 18	2100		7A				U OF H AGRIC EXP STA
HALEAKALA RANCH 432	A 0999	01	MAKAWAO	1	20 50	156 19	1850		8A			C	HALEAKALA RANCH CO
HALEAKALA RS 338	1004	02	MAKAWAO	2	20 46	156 15	7030	8A	8A				HALEAKALA NAT PARK
HALIIMAILE 423	A 1075	01	MAKAWAO	1	20 52	156 21	1070		3A			C	MAUI LANO-PINEAPPLE CO
HAMAKUAPOKO 485	1086	01	MAKAWAO	1	20 55	156 21	320		SA				HAWAIIAN COM & SUG CO
HANA 354	1122	01	HANA	1	20 45	155 59	120					C	HARRY HASEGAWA
HANA AIRPORT 355	1125	01	HANA	1	20 48	156 01	61	8A	8A				ROYAL HAWAIIAN AIRLINES
HOLUA CABIN 259.5	A 1552	02	MAKAWAO	2	20 45	156 13	6930		MO			C	HALEAKALA NATL PARK RGS
HONOKOHU 480	A 1882	04	LAHAINA	4	20 58	156 36	870		MO				MAUI LANO-PINEAPPLE CO
HONOKOHU 493	A 1887	04	LAHAINA	4	21 00	156 39	135		6A			C	MAUI LANO-PINEAPPLE CO
HONOLUA FIELO 49 494	A 1914	04	LAHAINA	4	21 01	156 38	125		MO				MAUI LANO-PINEAPPLE CO
HONOMANU GULCH 341	A 1935	01	MAKAWAO	1	20 47	156 14	6280		MO			C	HALEAKALA RANCH CO
KAAHAPALI AP 453.1	2307	04	LAHAINA	4	20 56	156 42	8	8A	8A				AMFAC PROPERTIES INC
KAHAKULOA MAUKA 482.3	2453	03	WAILUKU	4	20 59	156 33	650					C	EDWARD CHANG
KAHOMA INTAKE 374	A 2552	04	LAHAINA	4	20 54	156 38	2000		WI				PIONEER MILL CO LTO
KAHULUI WSO 398 AP	R 2572	03	WAILUKU	3	20 54	156 26	48	MIO	MIO			C	NATL WEATHER SERVICE
KAILIILI 436	A 2630	01	MAKAWAO	1	20 51	156 16	2520		MO				E MAUI IRR CO LTO
KAILUA 446	2679	01	MAKAWAO	1	20 54	156 13	700	7A	7A			C	E MAUI IRR CO LTO
KAUAKULA INTAKE 375	A 3433	04	LAHAINA	4	20 53	156 38	1585		WI				PIONEER MILL CO LTO
KAUPO RANCH HOUSE 259	3576	02	HANA	2	20 39	156 08	1020					C	KAUPO RANCH
KEAHUA 410	3910	03	MAKAWAO	3	20 52	156 23	480		SA				HAWAIIAN COM & SUG CO
KEANAE 346	A 4091	01	HANA	1	20 50	156 10	980		MO			C	E MAUI IRR CO LTO
KEAWAKAPU BEACH 260.2	4193	02	MAKAWAO	2	20 42	156 27	20	8A	8A				ALLEN L CORELL
KIHEI 311	4489	03	WAILUKU	3	20 47	156 27	90		7A			C	HAWAIIAN COM & SUG CO
KIPAHULU 258	4634	01	HANA	1	20 39	156 04	260		7A				HANA RANCH-KIPAHULU SEC
KUKUI 380	A 4887	04	LAHAINA	4	20 54	156 35	5788		MO			C	MAUI LANO-PINEAPPLE CO
KULA SANATORIUM 267	5006	02	MAKAWAO	2	20 42	156 22	3004	7A	7A				KULA SANATORIUM
LAHAINA 361	5177	04	LAHAINA	4	20 53	156 41	45	7A	7A			C	PIONEER MILL CO LTO
LAUNIUPOKO INTAKE 376	A 5404	04	LAHAINA	4	20 51	156 37	1280		WI				PIONEER MILL CO LTO
LAUNIUPOKO VILLAGE 372	A 5408	04	LAHAINA	4	20 51	156 39	220		7A			C	PIONEER MILL CO LTO
LUPU UPPER 442	A 5665	01	MAKAWAO	1	20 53	156 15	1240		MO				E MAUI IRR CO LTO
MAHINAHINA 466	A 5715	04	LAHAINA	4	20 57	156 40	715		7A			C	PIONEER MILL CO LTO
MOKUPEA 475	A 6521	04	LAHAINA	4	20 59	156 37	1290		MO				MAUI LANO-PINEAPPLE CO
NAKALELE FIELO 60 497	A 6645	04	LAHAINA	4	21 02	156 36	340		VAR			C	MAUI LANO-PINEAPPLE CO
OLINOA 332	A 7040	01	MAKAWAO	1	20 48	156 17	4127		VAR				EAST MAUI IRRIGATION CO
OLOWALU 296.1	7059	04	LAHAINA	4	20 49	156 37	20		7A			C	PIONEER MILL CO LTO
PAAKEA 350	7194	01	HANA	1	20 49	156 07	1260		VAR				E MAUI IRR CO LTO
PAIA 406	7566	01	WAILUKU	1	20 55	156 23	170		6A			C	HAWAIIAN COM & SUG CO
PANILEIHULU 259.2	A 7674	02	HANA	2	20 41	156 08	3570		MO				KAUPO RANCH CO.
PEAHI 488.6	7952	01	MAUI	1	20 54	156 17	830					C	BERNARD RUPLINGER
POHAKA BRIDGE 307.2	A 8060	03	WAILUKU	3	20 49	156 31	167		6A				WAILUKU SUGAR CO
POLIPOLI SPRINGS 267.2	A 8070	02	MAKAWAO	2	20 41	156 20	6150		VAR			C	STATE DIV OF FORESTRY
PUHOKAMOA 2 343	A 8336	01	HANA	1	20 50	156 13	2980		MO				E MAUI IRR CO LTO
PUUNENE 396	8543	03	WAILUKU	3	20 53	156 27	60		7A			S	HAWAIIAN COM & SUG CO
PUU PAKI 352	A 8553	01	HANA	1	20 46	156 03	2160						EAST MAUI IRRIGATION CO
SPRECKELSVILLE 400.2	8688	03	WAILUKU	3	20 54	156 25	85		8A			C	HAWAIIAN COM & SUG CO
TWIN GATES 261.3	A 8742	03	MAKAWAO	3	20 46	156 23	1310		VAR				KAONOULU RANCH
UH AGRI RES CNTR 324.5	8743	02	MAUI	2	20 46	156 20	3050					C	UH MAUI AGRI RESCH CNTR
UKULELE 333	A 8744	01	MAKAWAO	1	20 48	156 15	5230		MO				HALEAKALA RANCH CO
UKUMEHAME 301	A 8750	04	LAHAINA	4	20 48	156 35	75		7A			C	PIONEER MILL CO LTO
ULUPALAKUA RANCH 250	8760	02	MAKAWAO	2	20 39	156 24	1900		8A				ULUPALAKUA RCH CO LTO
WAHIKULI 364	A 8955	04	LAHAINA	4	20 54	156 40	580		8A			C	PIONEER MILL CO LTO
WAIHEU CAMP 484	A 9275	03	WAILUKU	3	20 55	156 31	320		6A				WAILUKU SUGAR CO
WAIHEE VALLEY 482	A 9315	04	WAILUKU	4	20 57	156 32	300		6A			C	WAILUKU SUGAR CO
WAIKAMOI 449	A 9332	01	HANA	1	20 52	156 12	1200		MO				E MAUI IRR CO LTO
WAIKAMOI DAM 336	9335	01	MAKAWAO	1	20 49	156 14	4320					C	EAST MAUI IRRIGATION CO
WAIKAPU 390	A 9376	03	WAILUKU	3	20 51	156 31	370		6A				WAILUKU SUGAR CO
WAILUA IKI 348	A 9460	01	HANA	1	20 48	156 09	2630					S	EAST MAUI IRRIGATION CO
WAILUKU 386	A 9484	03	WAILUKU	3	20 54	156 30	180		7A				WAILUKU SUGAR COMPANY
WAIOPAI RANCH 256	A 9765	02	HANA	2	20 38	156 12	220		OC				HALEAKALA RANCH CO
ISLAND OF HAWAII													
AHUA UMI 75	A 0040	05	N KONA	5	19 38	155 47	5220		MO			S	W.H. GREENWELL RANCH
CITY OF REFUGE 27.4	0344	04	S KONA	4	19 25	155 55	15		9A				NAT HISTORICAL PARK

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ISLAND OF HAWAII												
HAINA 214	0840	01	HAMAKUA	1	20 06	155 28	461		8A			HONOKAA SUGAR CO
HAKALAU 142	0905	02	S HILO	2	19 54	155 08	105		7A			MAUNA KEA SUGAR CO
HALEMAUMAU S2	A 1033	03	KAU	3	19 24	155 17	3648		MO			HAWAII NAT PARK
HALEPOHAKU 111	A 1065	02	HAMAKUA	2	19 46	155 28	9220		3P			MAUNA KEA OBSERVATORY
HAWAII VOLCNS NP HQ S4	1303	02	KAU	2	19 26	155 16	3971	8A	8A		C	HA VOLCANOES NAT PK HQS
HAWI 168	A 1339	01	N KOHALA	1	20 14	155 50	580		6A		C	K L 80NO
HILO COUNTRY CLUB 86.6	1487	02	HAWAII	2	19 41	155 10	1600				C	REX WILLS II
HILO W50 AP 87	R 1492	02	S HILO	2	19 43	155 04	36	M10	M10		C	NATL WEATHER SERVICE
HOLUALOA 70	A 1557	04	N KONA	4	19 38	155 55	3220		MO			STATE DIV OF FORESTRY
HOLUALOA BEACH 68	A 1562	04	N KONA	4	19 37	155 59	14		7A			CAPT COOK CATTLE CO
HONAUNAU 27	1665	04	S KONA	4	19 27	155 53	1089		7A			SHIGETO L TANAKA
HONOHINA 137	1701	02	N HILO	2	19 56	155 09	300		7A			MAUNA KEA SUGAR CO INC
HONOMU MAUKA 138	1960	02	S HILO	2	19 51	155 09	1100				C	MAUNA KEA SUGAR CO
HONUAULA 71	A 2047	04	N KONA	4	19 40	155 53	6250		MO			STATE DIV OF FORESTRY
HUALALAI 72	A 2151	04	N KONA	4	19 42	155 52	8190		MO			STATE DIV OF FORESTRY
HUEHUE 92.1	A 2156	04	N KONA	4	19 45	155 59	1960		6A			HUEHUE RANCH
KAAALA 1KI 12	A 2249	03	KAU	3	19 08	155 34	1340		WI			KAU SUGAR COMPANY, INC
KAAHALOA 29	A 2327	04	SOUTH KONA	4	19 30	155 55	1340		8A			CAPT COOK INVESTMENT CO
KAHIKAWI MAUKA 3.8	2512	03	KAU	3	19 08	155 46	4120				C	RUSSELL P. SMITH
KAHUA RCH HQTRS 176.3	2600	01	HAWAII	1	20 08	155 48	3240				C	KAHUA RANCH COMPANY
KAINALIU 73.2	2751	04	N KONA	4	19 32	155 56	1500	7A	7A			KONA EXPERIMENT STA
KALAOA 69.22	2887	04	HAWAII	4	19 44	155 59	2000		8A			FLOYD W MC COY
KALAPANA I 67.8	2894	02	S HILO	2	19 20	155 02	10		VAR			HAWAII VOLCANOES NAT PK
KAMAOKA 2 5	A 3048	03	KAU	3	19 02	155 40	1375		WI			PARKER RCH-KAPAPALA OIV
KAMUELA 192.2	3077	01	S KOHALA	1	20 01	155 40	2670	6A	6A			PARKER RANCH
KAPAPALA RANCH 36	A 3300	03	KAU	3	19 17	155 27	2140		6A			GORDON CRAN
KAPOHO BEACH 93.11	3368	02	HAWAII	1	19 30	154 49	10	8A	8A			H E MC NICHOLS
KAPOHO LANDING 93.5	A 3369	02	PUNA	2	19 30	154 52	290		VAR			DEPT OF PUBLIC WORKS
KAWAINUI LOWER 193	A 3770	01	HAMAKUA	1	20 05	155 39	1080		WI			HONOKAA SUGAR CO
KEAAU 92	3872	02	PUNA	2	19 38	155 02	285		8A			PUNA SUGAR CO
KEAIWA CAMP 22.1	3925	03	KAU	3	19 14	155 29	1700				C	KAU SUGAR COMPANY, INC
KEALAKEKUA 26.2	3977	04	S KONA	4	19 30	155 55	1450				C	CLOSED 4/12/78
KEALAKEKUA 3 29.11	3985	04	S KONA	4	19 31	155 55	1530				C	W H GREENWELL RANCH
KEANAKOLU CAMP 124.2	4098	02	HAMAKUA	2	19 55	155 21	5280				C	STATE DIV OF FORESTRY
KIOLAKAA A & F 6	A 4625	03	KAU	3	19 04	155 38	1925		MO			STATE DIV OF FORESTRY
KIPA 89.2	A 4632	02	S HILO	2	19 44	155 09	1490		WI			MAUNA KEA SUGAR CO.
KOHALA MISSION 175.1	4680	01	N KOHALA	1	20 14	155 48	537		7A			K LYMAN 80NO
KOIAWE LOWER 196	A 4685	01	HAMAKUA	1	20 05	155 38	720		WI			HONOKAA SUGAR CO
KONA (KAILUA) 68.3	A 4764	04	N KONA	4	19 39	156 00	30	8A	8A		C	CHEVRON USA
KONA VILLAGE 93.8	4765	04	N KONA	4	19 50	155 59	20		8A			KONA VILLAGE RESORT HTL
KUKAIAU 222	4815	01	HAMAKUA	1	20 02	155 21	840		6A			LAUPAHOEHOE SUGAR CO
KUKUIHALE HIC 199	4928	01	HAMAKUA	1	20 07	155 35	980		6A			HONOKAA SUGAR CO
KUKUIHALE MILL 206	A 4938	01	HAMAKUA	1	20 08	155 34	300		6A			HONOKAA SUGAR CO
KULANI CAMP 79	5011	02	S HILO	2	19 33	155 18	5170	8A	8A			ST DEPT OF SOCIAL SER
KULANI MAUKA 76	A 5018	05	N HILO	5	19 35	155 27	8300		WI			MAUNA LOA OBSERVATORY
KULANI SCHOOL SITE 78	A 5021	02	S HILO	2	19 35	155 20	5735		WI			ST DEPT OF SOCIAL SER
LALAMILO FLO OFF 191.1	5260	01	S KOHALA	1	20 01	155 41	2615				C	STATE DEPT OF LAND RES
LANIHAU 68.2	5330	04	N KONA	4	19 40	155 58	1530		7A			KONA EXPERIMENT STATION
LAVA TREE PARK 66.1	5460	02	PUNA	2	19 29	154 54	650				C	STATE DIV OF PARKS
MAKAHALAU 103	5761	02	HAWAII	1	19 59	155 33	3820		6A			PARKER RANCH
MANUKA 2	A 6134	03	KAU	3	19 07	155 50	1760		WI			STATE DIVISION OF PARKS
MAUNA KEA OBS 111.2	6183	02	HAWAII	2	19 49	155 28	13770		7P			MAUNA KEA OBSERVATORY
MAUNA LOA SLOPE OBS	6198	05	HAMAKUA	5	19 32	155 35	11150	M10	M10			MAUNA LOA OBSERVATORY
MIDDLE HOLUALOA 68.1	A 6268	04	N KONA	4	19 37	155 58	500		7A			CAPT COOK CATTLE CO
MIDDLE PEN 147.1	A 6270	01	N KOHALA	1	20 06	155 50	1380		VAR			KAHUA RANCH
MOAULA 18	A 6407	03	KAU	3	19 11	155 30	600		WI			PARKER RCH-KAPAPALA OIV
MOUNTAIN VIEW 91	6552	02	PUNA	2	19 33	155 07	1530	6A	6A			PUNA SUGAR CO
NAALEHU 14	A 6588	03	KAU	3	19 04	155 35	800	8A	8A			KAU SUGAR COMPANY
NAPOOPOO 28	A 6697	04	S KONA	4	19 28	155 55	350		7A			U H KONA EXP STATION
OOKALA 223	7131	02	N HILO	2	20 01	155 17	430	7A	7A			LAUPAHOEHOE SUGAR CO
OPIHIHALE 2 24.1	7166	04	S KONA	4	19 16	155 53	1270	7A	7A			MRS LORMA TRUMAN
ORCHIO LANO EST 91.5	A 7185	02	PUNA	2	19 34	155 00	445		VAR			BOARD OF WATER SUPPLY
PAAUHAU 217	7204	01	HAMAKUA	1	20 05	155 26	415		8A		C	HONOKAA SUGAR COMPANY
PAAUULO 221	7312	01	HAMAKUA	1	20 03	155 22	800		7A			LAUPAHOEHOE SUGAR CO
PAHALA 21	A 7421	03	KAU	3	19 12	155 29	870		6A			KA'U SUGAR CO INC
PAHOA 65	7457	02	PUNA	2	19 30	154 57	670		6A			PUNA SUGAR COMPANY
PAKAO 37	A 7643	03	KAU	3	19 22	155 28	5000		MO			CLOSED 4/30/78

SEE REFERENCE NOTES FOLLOWING STATION INDEX



# STATION INDEX

HAWAII AND PACIFIC  
MAY 1978

STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES				OBSERVER
								TEMP.	PRECIP.	EVAP.	SPECIAL (SEE NOTES)	
ISLAND OF HAWAII												
PAPAIIKOU 144.1	7711	02	S HILO	2	19 47	155 06	260		7A			MAUNA KEA SUGAR CO
PAPAIIKOU MAUKA 140.1	7721	02	S HILO	2	19 47	155 08	1270		7A			MAUNA KEA SUGAR CO
PIIHONUA 89	A 8051	02	S HILO	2	19 44	155 10	1730		MO			STATE DIV OF FORESTRY
POHAKULOA 107	8063	02	HAMAKUA	2	19 45	155 32	6511				C	STATE DIV OF PARKS
PUUKOHOLA HEIAU 98.1	8422	05	HAWAII	5	20 02	155 50	140	8A	8A			SUPT PUU HEIAU-NHS
PUU LEHUA 73	A 8460	04	N KONA	4	19 34	155 49	4880		MO			W.H. GREENWELL RANCH
PUU WAAWAA 94.1	8555	05	N KONA	5	19 47	155 51	2520				C	PUU WAAWAA RANCH CO
SAOOLE ROAD 1 84	A 8590	02	S HILO	2	19 42	155 12	2340		WM			CLOSED 4/30/78
SOUTH KONA 2.31	8650	03	HAWAII	3	19 06	155 45	2650	8A	8A			MRS CAROLYN CARLSON
SOUTH POINT CORRAL 3	A 8675	03	KAU	3	18 57	155 41	500		WI			PARKER RCH-KAPAPALA DIV
UPOLU POINT USCG 159.2	8830	01	N KOHALA	1	20 15	155 53	61	8A	2P			U S COAST GUARD
WAIKEA SCD 88.2	9025	02	S HILO	2	19 40	155 08	1050		7A			SHINICHI KANESHIRO
WAIKALOA-8015 CAS 95.8	9142	04	HAWAII	5	19 56	155 48	900		8A			8015E CASCADES WA CONST
CLOSED STATIONS ISLAND OF HAWAII												
KEALAKEKUA 26.2	3977	04	S KONA	4	19 30	155 55	1450				C	CLOSED 4/12/78
PAKAO 37	A 7643	03	KAU	3	19 22	155 28	5000		MO			CLOSED 4/30/78
SADDLE ROAD 1 84	A 8590	02	S HILO	2	19 42	155 12	2340		WM			CLOSED 4/30/78
NEW STATIONS ISLAND OF HAWAII												
KEALAKEKUA 3 29.11	3985	04	S KONA	4	19 31	155 55	1530				C	W H GREENWELL RANCH

SEE REFERENCE NOTES FOLLOWING STATION INDEX

# STATION INDEX

HAWAII AND PACIFIC  
MAY 1978

STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES				OBSERVER
								TEMP.	PRECIP.	EVAP.	SPECIAL (SEE NOTES)	
PACIFIC												
EAST OF 180TH MERIDIAN												
ATU'U	4060	03	TUTUILA		14 16S	170 41W	265		4P			MARIST BROTHERS
CANTON ISLAND	4101	02	PHOENIX IS		2 46N	171 43W	8	9A	9A			ITT/FEDERAL ELEC CORP
FALEASAO VILLAGE	4248	03	TA'U'MAN		14 14S	169 31W	16		8A			SOLOMULI MALU'IA
JOHNSTON IS WSO AP	R 4320	01	LINE ISLANDS		16 44N	169 31W	10	M10	M10	SP	J	NATL WEATHER SERVICE
LEONE	4397	03	TUTUILA		14 21S	170 47W	20	6P	6P			ST THERESA SCHOOL
FRENCH FRIGATE SHOALS	4401	07			23 52N	166 17W	6	8P	8A			U S COAST GUARD
MIDWAY SAND ISLAND	4490	07			28 13N	177 21W	10	M10	M10			U S NAVY
PAGO PAGO WSO AP	R 4690	03	AMER SAMOA		14 20S	170 43W	12	M10	M10		J	NATL WEATHER SERVICE
WESTERN PACIFIC ISL. NORTH OF 12 N												
ANDERSEN AFB GUAM	\$3 4025	03	MARIANNA IS		13 35N	144 55E	624	M10	M10			AIR WEATHER SERVICE
CLARK AFB LUZON	\$3 4100	06	PHILIPPINE I		15 11N	120 33E	475	M10	M10			U S AIR FORCE
GUAM NAS	# 4226	03	MARIANNA IS		13 29N	144 48E	254	M10	M10			U S NAVY
GUAM WSMO	R 4229	03	MARIANNA IS		13 33N	144 50E	361	10A	10A	6P	J	NATL WEATHER SERVICE
MANGILAO	4468	03	MARIANNA IS		13 27N	144 49E	60		7A			GUAM AGRICULTURAL STA
ROTA	4800	03	MARIANNA IS		14 08N	145 09E	47		8A			DIST ADMINISTRATOR
SAIPAN LORAN	4860	03	MARIANNA IS		15 08N	145 42E	9	10A	10A			U S C G LORAN STATION
WAKE ISLAND WSO AP	R 4901	01	WAKE ISLAND		19 17N	166 39E	12	M10	M10		J	NATL WEATHER SERVICE
CAROLINE AND MARSHALL ISLANDS												
ANGUAR	4030	02	CAROLINE IS		6 55N	134 09E	15		8A			USCG LORAN STATION
ENEWETAK	4165	01	MARSHALL IS		11 21N	162 21E	10	6P	6P			MIO-PACIFIC MARINE LAB
FALALOP I ULITHI ATOLL	4185	02	CAROLINE IS		10 02N	139 48E	6	M10	M10			RAPAHEL 8 LINGESOH
KAPINGAMARANGI ATOLL	4325	01	PONAPE		1 05N	154 48E	10	M10	M10			ERSIN HAQUET
KOROR WSO	R 4351	02	CAROLINE IS		7 20N	134 29E	91	M10	M10		J	NATL WEATHER SERVICE
KWAJALEIN MISSILE RGN	R 4375	01	MARSHALL IS		8 44N	167 44E	7	12M	12M		J	KMR WEATHER SERVICE
LELE I KOSRAE	4395	02	KOSRAE		5 20N	163 02E	7	M10	M10			JULIAN E ROBERT
MAJURO WSO AP	R 4460	02	MARSHALL IS		7 05N	171 23E	10	M10	M10		J	NATL WEATHER SERVICE
METALANIM	4482	02	PONAPE		6 51N	158 19E	30	6P	6P			REV E. A. SOUCIE
MOKIL ATOLL	4490	02	PONAPE IS		6 41N	159 47E	27		5P			ESHAM BEN
NGASANG 8ABELTHUAP	4580	01	PALAU ISLAND		7 38N	134 39E	10		8A			BETHANIA SEMINARY
PONAPE WSO	R 4751	02	CAROLINE IS		6 58N	158 13E	123	M10	M10		J	NATL WEATHER SERVICE
SATAWAN ATOLL	4814	02	CAROLINE IS		5 20N	153 44E	9	M10	M10			ANTER EKO
TRUK, MOEN I. WSO AP	R 4851	02	CAROLINE IS		7 28N	151 51E	5	M10	M10		J	NATL WEATHER SERVICE
WOLEAI ATOLL	4911	01	CAROLINE IS		7 23N	143 55E	7	M10	M10			HASUGULIMAR/HALEYEMAI
YAP WSO AP	R 4951	02	CAROLINE IS		9 29N	138 05E	44	M10	M10		J	NATL WEATHER SERVICE

SEE REFERENCE NOTES FOLLOWING STATION INDEX



Additional information regarding the climates of Hawaii and the Pacific Ocean Area may be obtained by writing to the National Climatic Center, Federal Building, Asheville, N.C. 28801, or to any National Weather Service Office near you. Additional precipitation data for Hawaii are contained in "HOURLY PRECIPITATION DATA HAWAII."

**DIMENSIONAL UNITS:** Unless otherwise indicated, dimensional units used in this bulletin are: Temperature in °F., precipitation and evaporation in inches, and wind movement in miles. In "Supplemental Data" table directions entered in figures are tens of degrees. Resultant wind is the vector sum of wind directions and speeds divided by the number of observations.

**OBSERVATION TIME:** Data in the "Monthly Extremes," "Daily Precipitation" table, "Daily Temperature" table, and "Evaporation and Wind" table are for the 24 hours ending at time of observation unless indicated otherwise by reference letters in the Station Index. The Station Index shows observation time in local standard time.

**EVAPORATION** is measured in the standard Weather Service-type pan of 4-foot diameter unless otherwise noted below in the Evaporation and Wind table.

Max and Min values in the Evaporation and Wind table are extremes of temperature of water in pan as recorded during 24 hours ending at time of observation. Wind is the total wind movement in miles over the evaporation pan as determined by a continuous anemometer recorder located 6-8 inches above the pan.

**NORMALS** for all stations are climatological standard normals based on the period 1941-1970.

**STATION NAMES:** Hawaii state key numbers are included following station names in the several tables.

**LATE REPORTS AND CORRECTIONS** will be carried only in the June and December issues of this bulletin.

**INTERPOLATED VALUES** for monthly precipitation totals may be found in the annual issue of this publication.

**IN THE DATA TABLES THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING:**

- No record in the "Supplemental Data" table, "Daily Precipitation" table, "Evaporation and Wind" table, and the Station Index.  
No record in the "Monthly Summarized Data" table and the "Daily Temperature" table is indicated by no entry.
- + And also on an earlier date or dates.
- ++ Highest observed one minute windspeed. This station is not equipped with an instrument to measure fastest mile data.
- \* Amount included in following measurement, time distribution unknown.
- ‡ Extreme occurred at station with incomplete data which may have been exceeded.
- A The letter "A" shown following station name in "Monthly Summarized Data" table, "Daily Precipitation" table, and "Station Index," indicates amount carried in the "Total" column is for the period from last measurement of a preceding month through the last measurement of the current month. See "Daily Precipitation" table of this and previous bulletins for dates of measurement. Where gages are read only once monthly, measurements made on the first of a month are credited to the last day of the preceding month.
- B Adjusted to a full month.
- M One or more days of record missing; if average value is entered, less than 10 days record is missing. See "Daily Temperature" table for detailed daily record.
- R Amounts from recording gage.
- T Trace, an amount too small to measure.
- V Includes total for previous month.

**IN THE STATION INDEX THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING:**

- AR Observation made after rain.
- C In Special Column of Station Index indicates Recording Rain Gage Station. Hourly Precipitation values are processed for special purposes, and are published later in the "Hourly Precipitation Data" bulletin. If daily amounts are published in "Monthly Summarized Data" bulletin they are from a separate non-recording gage, except where indicated by reference 'R'. Such amounts may differ from amounts published from the recording gage in the "Hourly Precipitation Data" bulletin.
- J "Supplemental Data" table.
- MO Gage read once monthly; usually on the last day.
- OC Gage readings at periods varying from a few weeks to several months.
- S Storage precipitation station. Precipitation measurements, made at irregular intervals, are published in the annual issue of this publication, beginning with the 1977 data. Prior data are found in the "Storage-Gage Precipitation Data" Bulletin, which was discontinued with the 1976 issue.
- SS Observation time is near sunset.
- VAR Observation time is variable.
- WI Gage read weekly or irregularly only.
- WM Gage read weekly and last day of month.
- # Thermometers are generally exposed in a shelter located a few feet above sod-covered ground; however, this reference indicates that the thermometers are exposed in a shelter located on the roof of a building.
- ‡ Maximum and minimum temperatures are the highest and lowest hourly readings for each day.
- # DRAINAGE CODE: KAUAI: 1-NORTHERN 2-SOUTHEASTERN 3-SOUTHWESTERN OAHU: 1-WINDWARD KOOLAU 2-HONOLULU 3-SOUTH CENTRAL 4-WESTERN S-NORTH CENTRAL MOLOKAI: 1-(NO INTRA-ISLAND DIVISIONS) LANAI: 1-(NO INTRA-ISLAND DIVISIONS) MAUI: 1-NORTHEASTERN 2-SOUTHERN 3-CENTRAL 4-WESTERN HAWAII: 1-NORTHERN 2-EASTERN 3-SOUTHERN 4-WESTERN S-CENTRAL

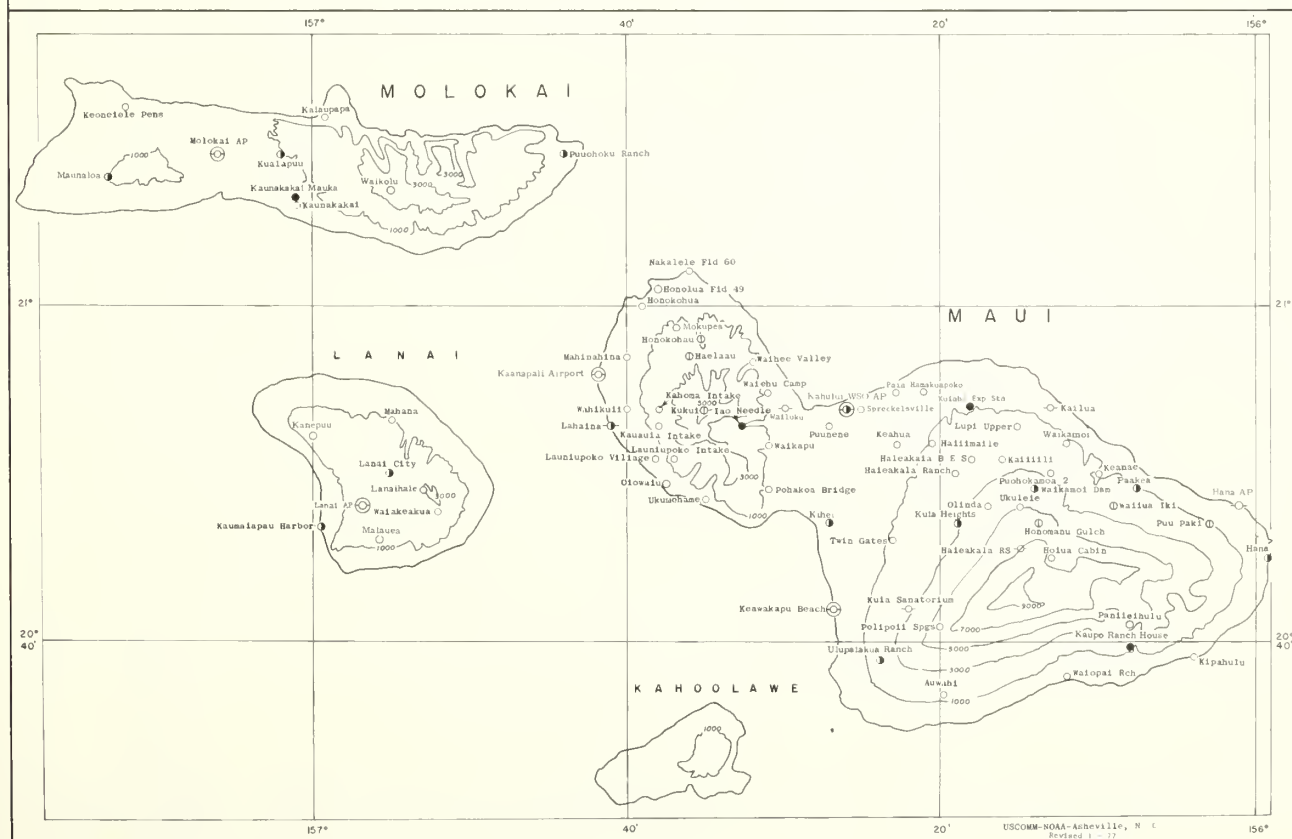
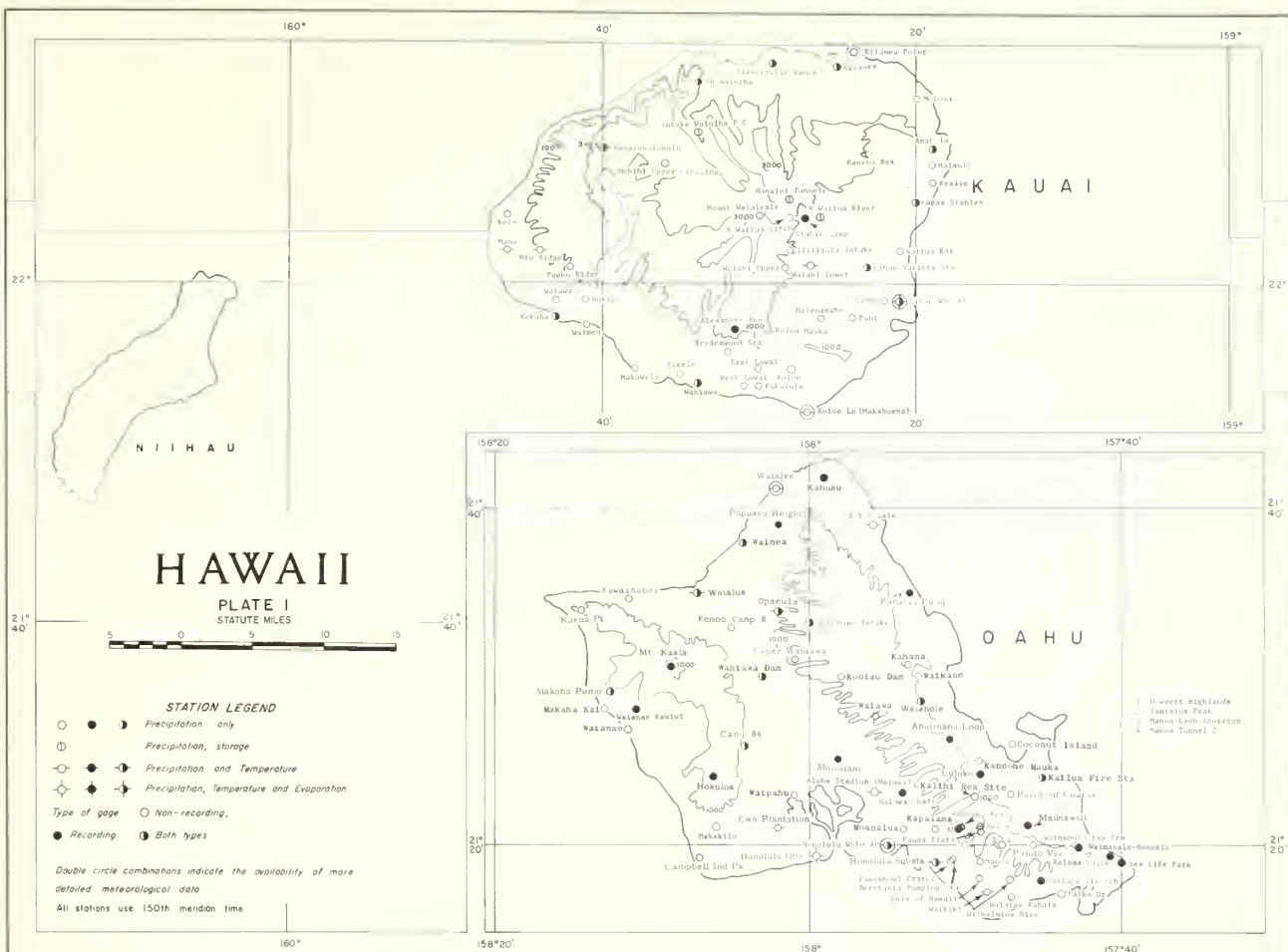
Stations appearing in the tables with no data were either missing or received too late to be included in this issue.

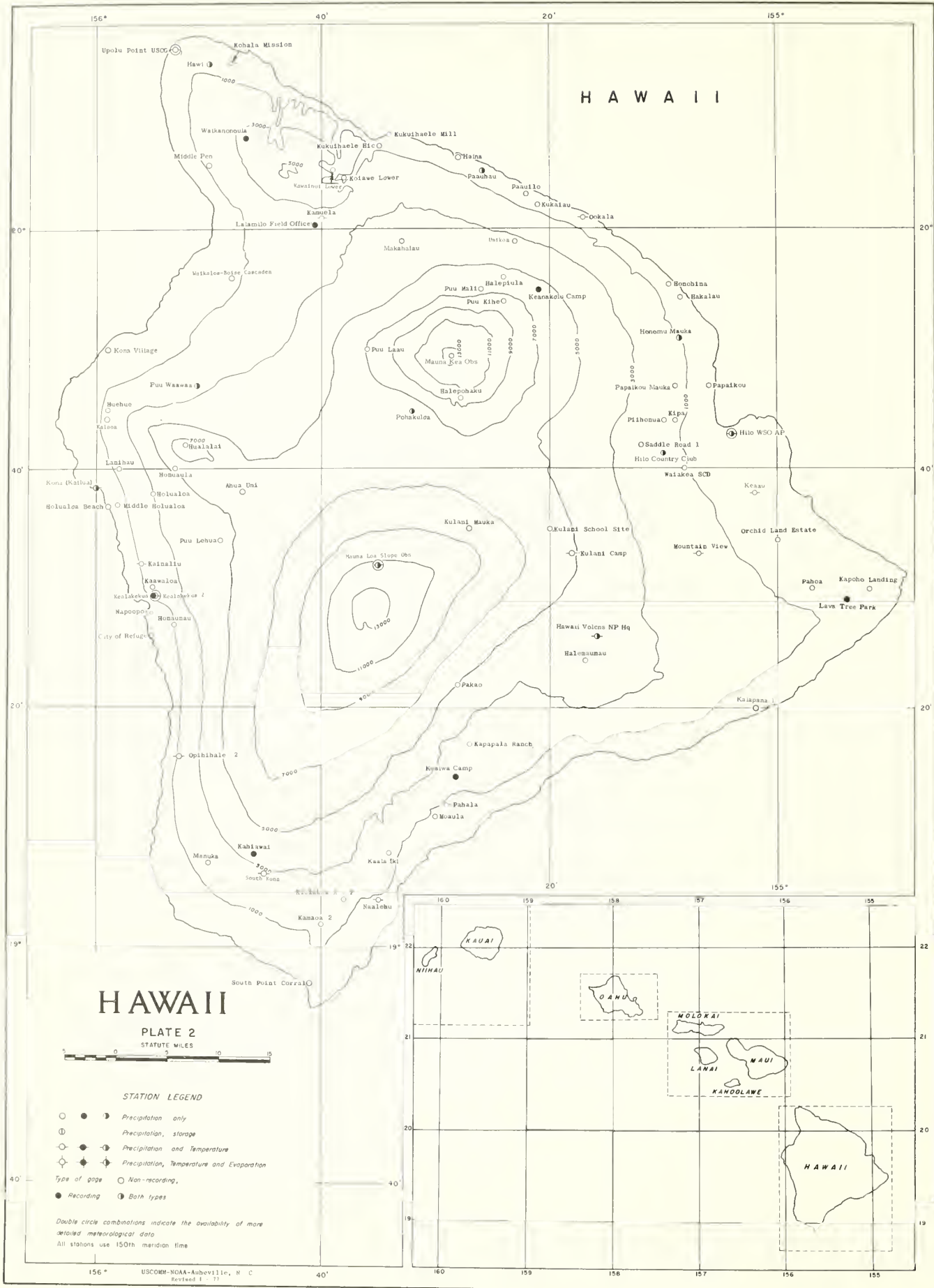
The Pacific includes stations in the Trust Territory of the Pacific Islands, Territory of Guam, American Samoa, and other scattered islands and atolls.

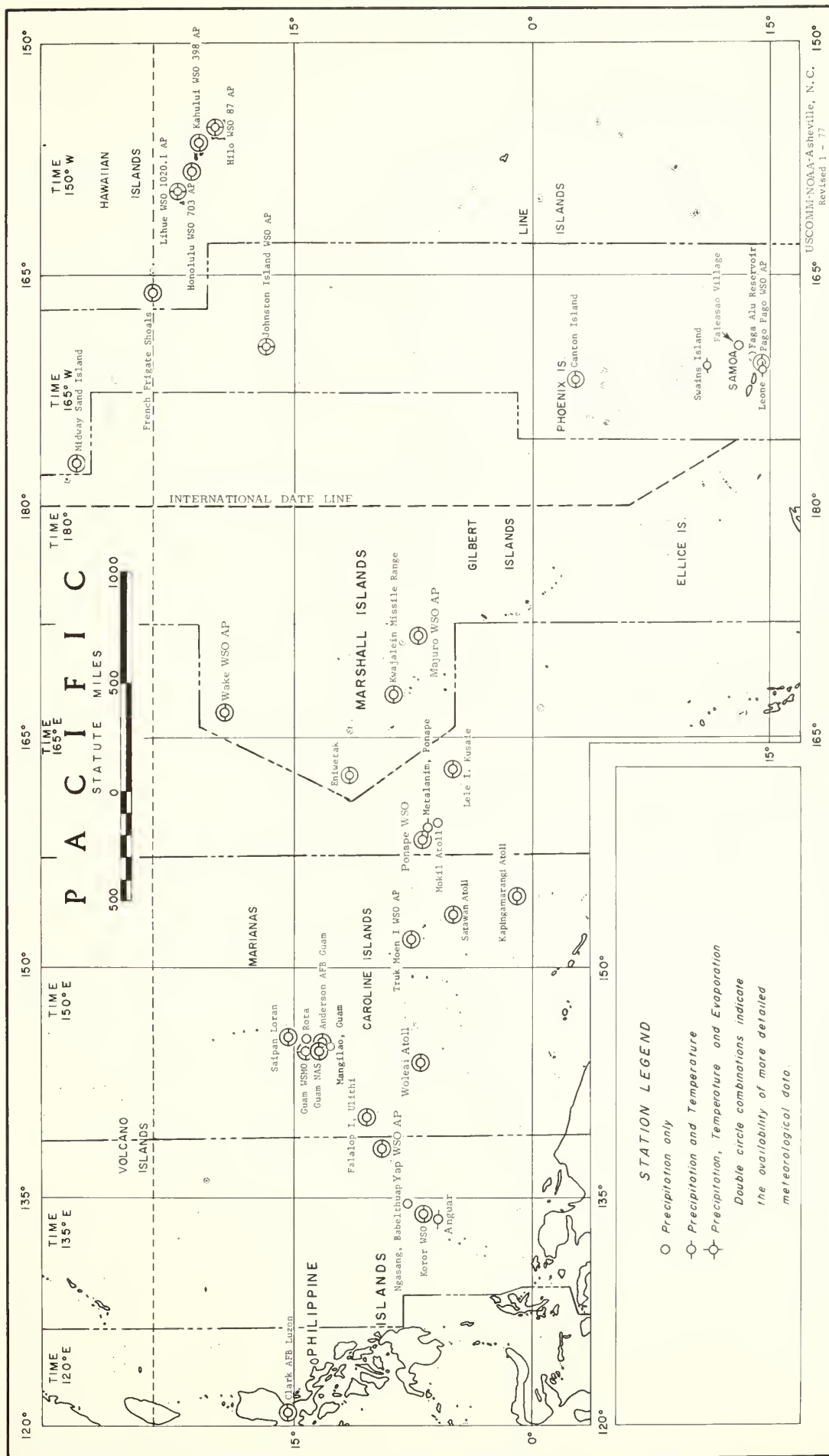
General weather conditions in the U.S. for each month are described in the CLIMATOLOGICAL DATA NATIONAL SUMMARY and STORM DATA.

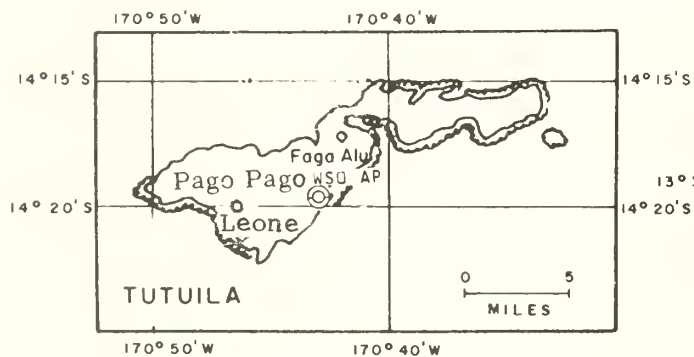
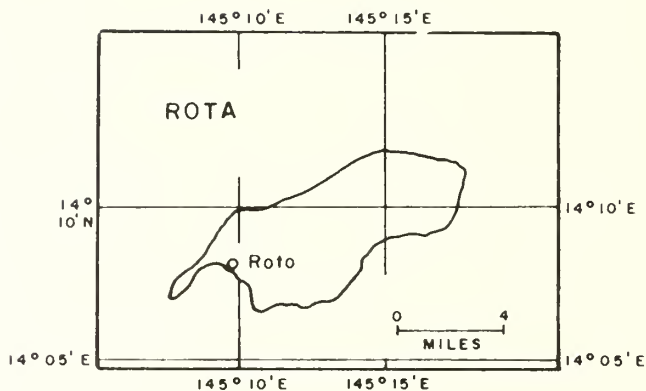
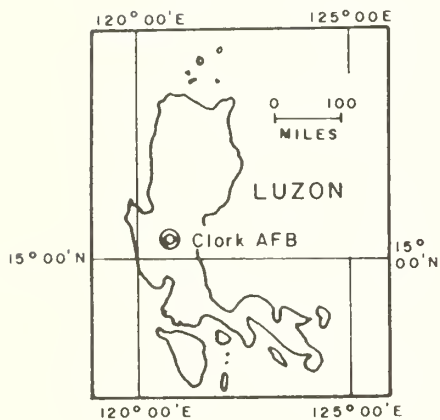
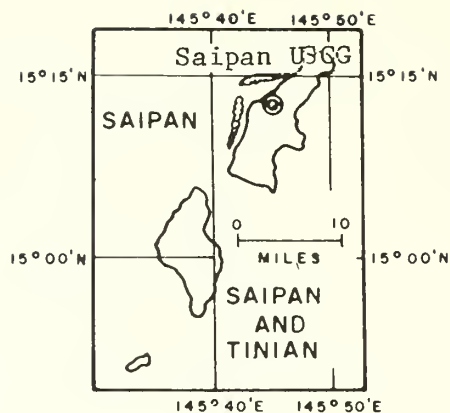
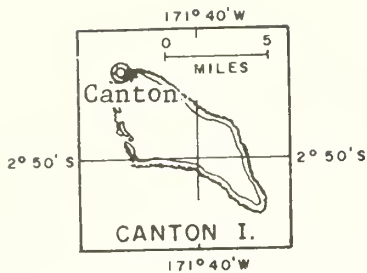
Information concerning the history of changes in locations, elevations, exposure, etc., of substations through 1957 may be found in the publication "Substation History" for this State, price 40 cents. Similar information for regular National Weather Service Offices may be found in the latest annual issue of Local Climatological Data, price 20 cents. These publications may be obtained from the National Climatic Center at the address shown above.

Subscription Price: \$5.10 a year for each section including annual summary; \$5.55 additional for foreign mailing; 40¢ single copy; 30¢ annual summary. Make checks payable to Department of Commerce, NOAA; send payments and orders to: National Climatic Center, Federal Building, Asheville, N. C. 28801. Attn: Publications.

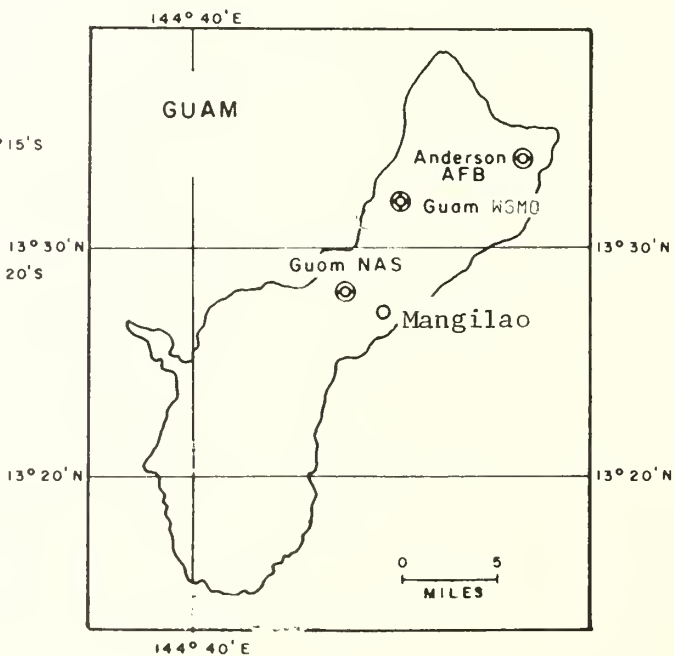




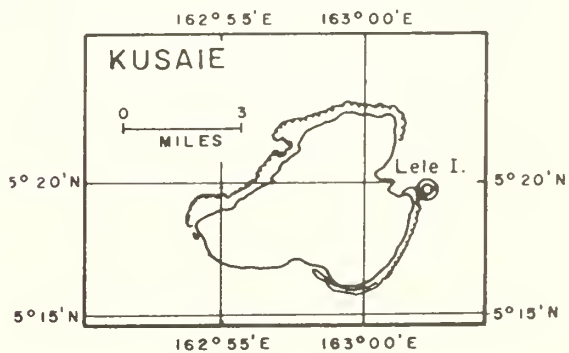
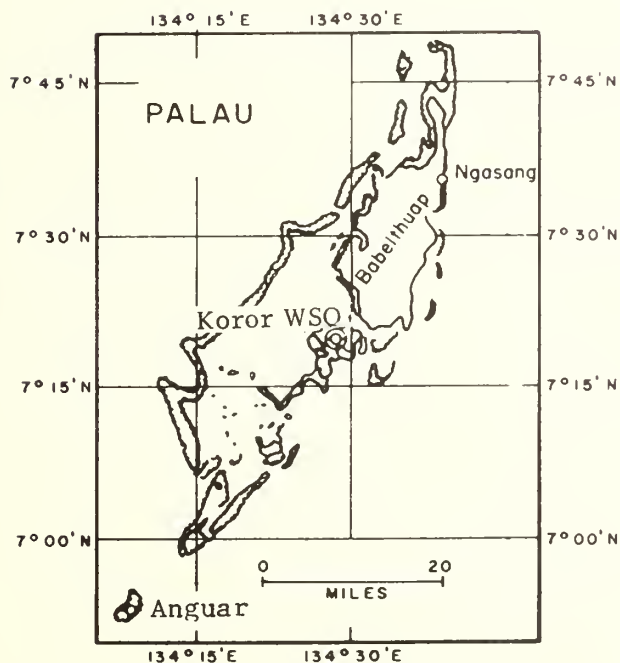
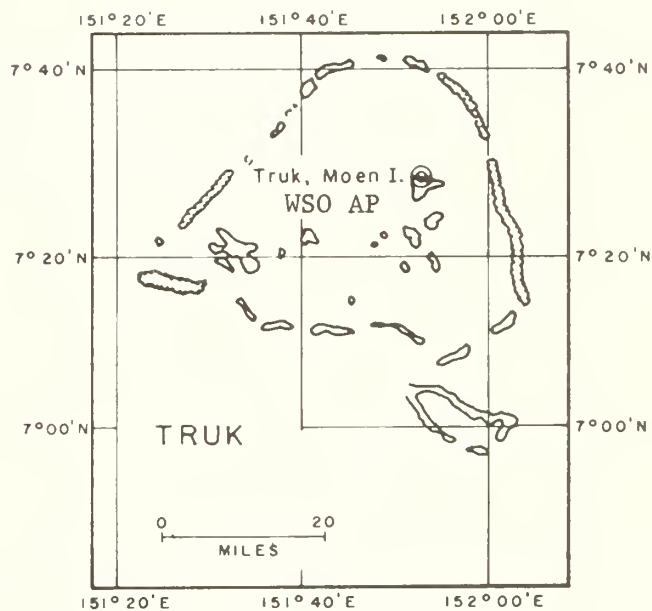
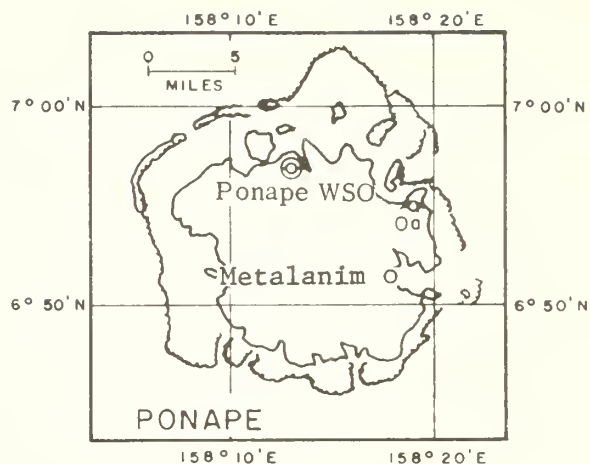
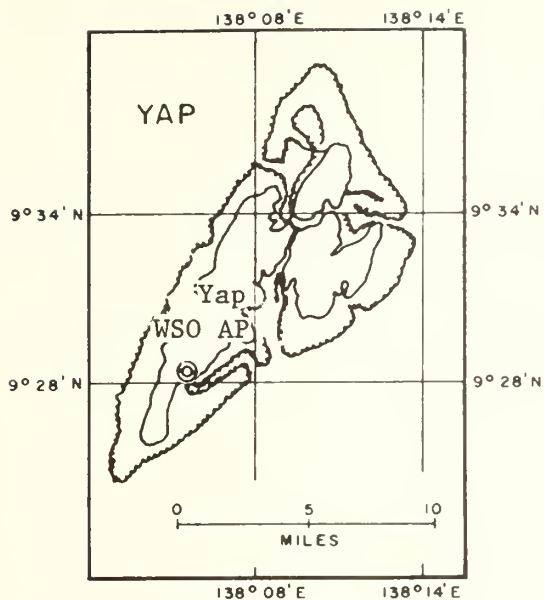




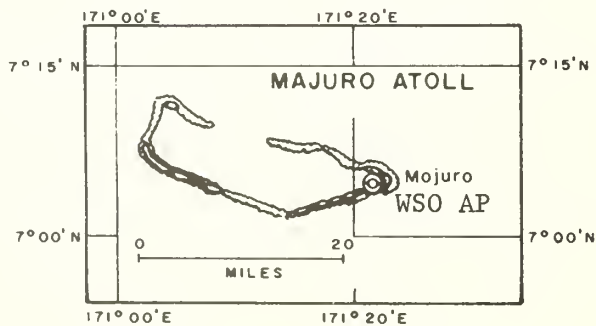
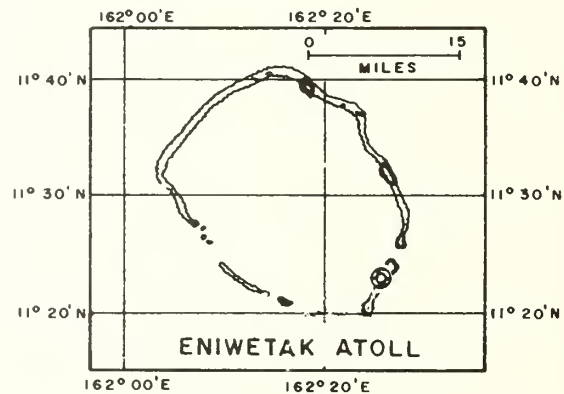
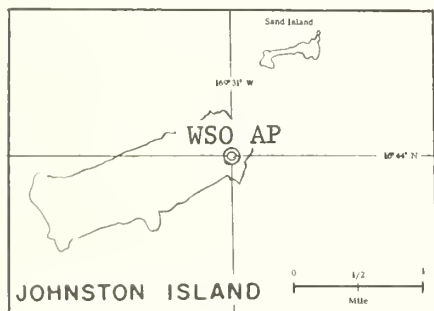
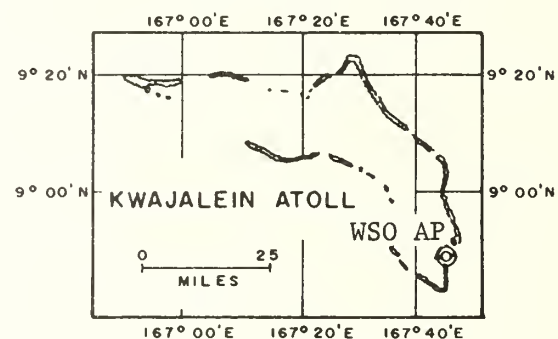
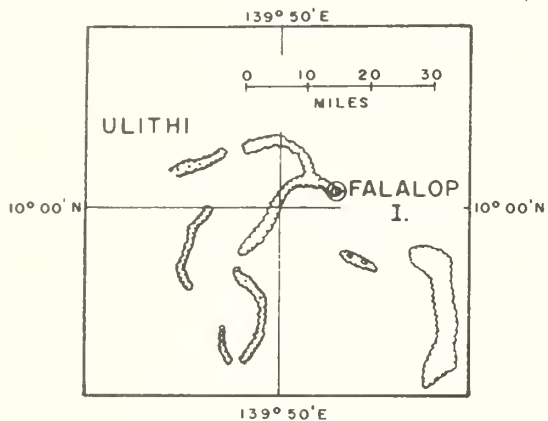
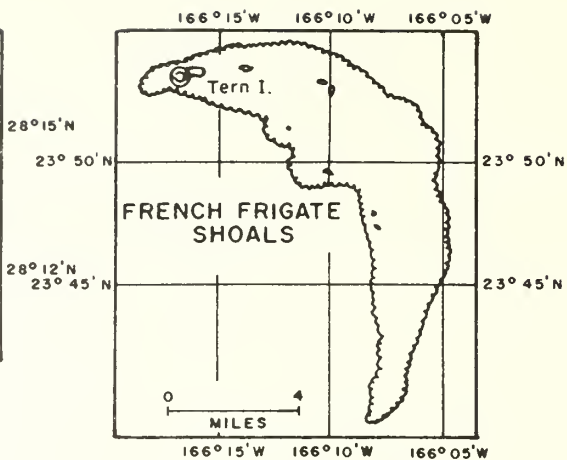
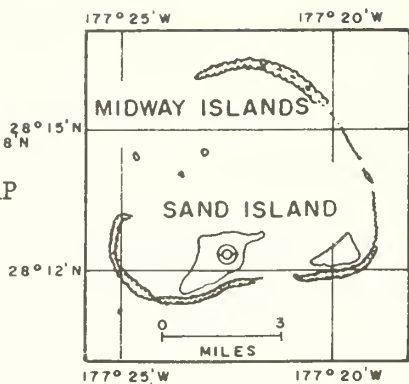
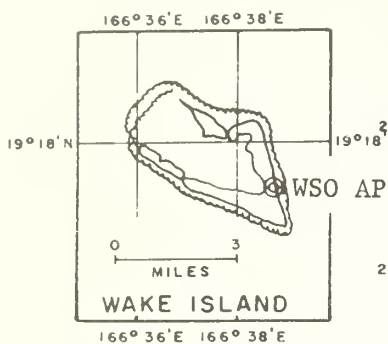
Reef







— Reef





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**THIRD CLASS**

# Climatological Data



## HAWAII AND PACIFIC

### TEMPERATURE AND PRECIPITATION EXTREMES

HAWAIIAN STATIONS ONLY

HIGHEST TEMPERATURE:	KEAWAKAPU BEACH 260.2	MAUI	95	DATE	27
LOWEST TEMPERATURE:	MAUNA LOA SLOPE 085	HAWAII	31	DATE	04
GREATEST TOTAL PRECIPITATION:	INTAKE WAINIHA PC 1086	KAUAI	34.57		
LEAST TOTAL PRECIPITATION:	4 STATIONS		.00		
GREATEST 1 DAY PRECIPITATION:	MANDA TUNNEL 2 716	OAHU	.7.62	DATE	28

### SUPPLEMENTAL DATA

	WIND (SPEED - M.P.H.)						RELATIVE HUMIDITY AVERAGES- PERCENT				NUMBER OF DAYS WITH PRECIPITATION								PERCENT OF POSSIBLE SUNSHINE	AVERAGE (TENTHS) SKY COVER SUNRISE TO SUNSET
	RESULTANT DIRECTION	RESULTANT SPEED	AVERAGE	FASTEST MILE	DIRECTION OF FASTEST MILE	DATE OF FASTEST MILE	STANDARD OF TIME				TRACE	.01-.09	.10-.49	.50-.99	1.00-1.99	2.00 AND OVER	TOTAL			
							GREENWICH CIVIL													
							12	18	00	06										
GUAM W5M0	-	-	-	26	SE	17	-	77	77	92	1	8	12	6	1	0	28	47	8.2	
HILO W50 87 AP	9	0.5	6.0	18	E	20	90	83	71	84	2	7	12	5	0	2	28	49	7.7	
HONOLULU W50 703 AP	7	12.6	13.5	28	NE	23+	81	76	59	76	12	5	1	1	0	0	19	71	6.9	
JOHNSTON W50 AP	9	16.4	16.9	31	E	29	79	79	72	78	5	12	4	0	0	0	21	87	6.8	
KAHULUI W50 398 AP	S	13.5	14.4	33	NE	14	-	70	55	65	2	5	4	0	0	0	11	67	6.0	
KOROR W50	12	1.8	5.7	27	S	12	88	-	81	75	1	6	12	2	2	2	25	45	8.5	
KWAJALEIN MISSILE RGN	8	10.9	11.7	29++	9	02	86	85	78	81	8	7	8	3	2	0	28	-	7.5	
LIHUE W50 1020.1 AP	6	13.6	14.3	25	NE	23	85	83	70	80	6	9	8	3	0	0	26	60	8.4	
MAJURO W50 AP	8	8.7	9.4	25	E	24	84	85	78	81	3	6	11	4	4	0	28	62	9.1	
PAGO PAGO W50 AP	10	S.0	9.6	26	E	20+	89	89	75	83	S	8	8	1	0	0	22	45	6.3	
PONAPE W50	-	-	-	18	E	09	92	-	80	83	0	6	12	5	4	2	29	41	8.6	
TRUK.MOEN I. W50 AP	9	S.4	7.8	22	SE	19+	85	-	77	77	1	S	11	5	2	1	25	36	9.3	
WAKE ISLAND W50 AP	7	13.8	14.5	32	NE	12	89	93	75	79	3	12	5	2	2	0	24	67	6.2	
YAP W50 AP	11	4.2	S.9	18	E	11	88	-	78	73	1	11	8	2	3	1	26	39	8.9	



## MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

HAWAII AND PACIFIC  
JUNE 1978

STATION	TEMPERATURE										PRECIPITATION									
	AVERAGE MAXIMUM	AVERAGE MINIMUM	AVERAGE	DEPARTURE FROM NORMAL	HIGHEST	DATE	LOWEST	DATE	DEGREE DAYS	NO. OF DAYS	TOTAL	DEPARTURE FROM NORMAL	GREATEST DAY	DATE	SNOW, SLEET			NO. OF DAYS		
															TOTAL	MAX. DEPTH ON GROUND	DATE	1.00 OR MORE	.50 OR MORE	1.00 OR MORE
HAWAII																				
ISLAND OF KAUAI																				
ANAHOA 1114	A	70.5	56.5	63.5	75	30	48	1		0	3.37		1.04	21	.0	0		2	1	
KANALOHULU 1075		82.4M	71.2M	76.8M	86	24	67	6		0	5.02		2.59	8	.0	0		10	1	
KILAUEA POINT 1133										0	4.92		1.57	21	.0	0		13	1	
KOLOA 936	A									0	12.93				.0	0				
LIHUE WSO 1020-1 AP	//R	82.6	71.1	76.9	- .6	86	11+	63	4	0	4.56	2.99	.80	21	.0	0		11	3	0
MANA 1026											1.07	.58	.51	3	.0	0		3	1	0
N WAILUA OITCH 1051	A										23.08				.0	0				
PH WAINIHA 1115											32.83	27.17	6.94	8	.0	0				
PUEHU RIDGE 1040											2.38	1.58			.0	0				0
WAIHAWA 930	A										4.80	3.43	1.35	29	.0	0				
WAIHAI LOWER 1054		74.7	65.3	70.0		77	27+	60	4+	0	18.23	11.20	3.26	21	.0	0		24	9	6
WAIHEA 947											.54	.30	.15	7	.0	0		2	0	0
ISLAND			71.8								9.48				.0					
ISLAND OF OAHU																				
ALOHA STATION-HALAWA		84.3M	70.9M	77.6M		87	5	66	2+	0	2.80		1.36	29	.0	0		3	3	1
B Y U LAIE 903-1		83.4M	67.8M	75.6M		87	1	65	14	0	4.39		1.80	21	.0	0			2	1
HONOLULU OBSERV 702-2		87.6	69.5	78.6		90	26	64	3+	1	1.11		.43	29	.0	0		4	0	0
HONOLULU WSO 703 AP	R	85.8	71.6	78.7	- .2	89	9	67	3+	0	1.06	.74	.68	28	.0	0		2	1	0
KANEHOE MAUKA 781		80.5	71.7	76.1	- .2	83	8+	67	4	0	6.53	3.87	1.17	29	.0	0		13	5	2
KOOLAU OAM 833	A										13.68		1.60	21	.0	0		19	13	6
MANOA LYON ARBORETUM		78.9	68.2	73.6		85	2	66	3	0	19.21		4.05	29	.0	0		19	12	6
NUUANU RES 4 783											15.20	9.27	4.46	28	.0	0		19	7	5
OPAEULA 870	A	79.6	67.5	73.6	1.9	80	30+	63	4+	0					.0	0				
PALOLO VALLEY 718	R										16.74	9.07	6.46	28	.0	0		18	9	2
WAIHOLE 837	A										17.20		4.45	29	.0	0				
WAIKALEE 896.3		81.7M	71.4M	76.6M		83	30+	67	4	0	5.55		1.94	21	.0	0				1
WAILUA 847	A	83.4	65.9	74.7	- .7	87	9+	61	1	0	2.02	1.58	.82	29	.0	0		5	2	0
WAIKIKI 717.2		86.7	70.5	78.6		89	22	64	3+	0	1.52		.70	6	.0	0		4	1	0
WAIMANALO EXP FM 795.1											2.77		.52	28	.0	0		7	1	0
WAIPIAHU 750	A										1.64		.83	29	.0	0		3	2	0
ISLAND			76.4								7.43				.0					
ISLAND OF MOLOKAI																				
MOLOKAI AP 524																				
ISLAND																				
ISLAND OF LANAI																				
LANAI CITY 672	A	76.8M	66.3M	71.6M	1.1	79	12+	63	1	0	2.33	1.05	.88	28	.0	0		6	1	0
ISLAND			71.6								2.33				.0					
ISLAND OF MAUI																				
HALEAKALA B E S 434	A										5.52		1.41	23	.0	0		10	4	2
HALEAKALA RS 338		64.3	44.7	54.5	- 1.9	73	16	39	13+	0	3.27	2.06	1.41	23	.0	0		7	2	1
HANA AIRPORT 355		83.1	70.6	76.9		85	30+	65	2	0	4.12		.69	28	.0	0		15	2	0
HONOKOHUA 493	A										4.50				.0	0				
KAHANAPALI AP 453-1		84.4	69.9	77.2		87	23	64	4	0	.76		.37	29	.0	0		2	0	0
KAHULUI WSO 398 AP	R	87.3	70.8	79.1	2.0	90	29+	63	3	3	.61	.40	.14	28+	.0	0		4	0	0
KAILUA 446		78.3	67.4	72.9	.9	81	29	62	3	0	10.02	2.92			.0	0				
KERANAE 346	A										19.10				.0	0				
KIPAHULU 258											5.96	.91	.60	19	.0	0		19	2	0
KULA SANATORIUM 267		73.4M	57.7M	65.6M	.9	76	27	55	4+	0	.63	.78	.21	8	.0	0		3	0	0
LAHAINA 361		87.0	68.8	77.9	1.4	90	27	66	20+	1	.47	.38	.47	29	.0	0		1	0	0
PAIA 406											1.59	.70	.50	28	.0	0		6	1	0
WAILUKU 386	A										.65	.22	.27	28	.0	0		2	0	0
ISLAND			72.0								4.40				.0					
ISLAND OF HAWAII																				
HAWAII VOLCNS NP HD 54		69.0	54.8	61.9	.2	77	9	50	5	0	7.21	2.54	1.48	19	.0	0		14	2	2
HILO WSO AP 87	R	83.8	69.1	76.5	1.9	86	29+	65	20	0	10.99	4.38	2.69	19	.0	0		19	7	2
HUEHUE 92.1											3.32				.0	0				
KAINALU 73.2		78.4	61.9	70.2		83	8	59	4+	0	10.67	3.41	1.28	21	.0	0		4	4	1
KAPOHO BEACH 93.11		85.9M	69.9M	77.9M		90	13	64	4	0	5.37		2.98	24	.0	0		17	7	3
KEAAU 92										1			.91	19	.0	0		3	0	
KONA WAILUA 1 68.3	A	84.8	71.8	78.3		87	30+	69	4	0	13.23		.89	20	.0	0			2	0
KUKUIHALE HIC 199											2.83				.0	0				
KULANI CAMP 79		63.6M	51.2M	57.4M		69	30	45	15+	0	7.46	4.50	1.37	19	.0	0		16	5	2
PAHALA 71	A										7.76		1.45	23+	.0	0		18	5	2
											2.90		.84	8	.0	0				0

SEE REFERENCE NOTES FOLLOWING STATION INDEX

## MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

HAWAII AND PACIFIC  
JUNE 1978

STATION	TEMPERATURE										PRECIPITATION												
	AVERAGE MAXIMUM	AVERAGE MINIMUM	AVERAGE	DEPARTURE FROM NORMAL	HIGHEST	DATE	LOWEST	DATE	DEGREE DAYS	NO. OF DAYS				TOTAL	DEPARTURE FROM NORMAL	GREATEST DAY	DATE	SNOW, SLEET			NO. OF DAYS		
										MAX.		MIN.						TOTAL	MAX. DEPTH ON GROUND	DATE	1.0 OR MORE	.50 OR MORE	1.00 OR MORE
										32° OR ABOVE	32° OR BELOW	32° OR ABOVE	32° OR BELOW										
HAWAII																							
PUUKOHOLA HEIAU 98.1	87.1M	69.4M	78.3M		92	30+	67	8+		10	0	0	0	.10		.05	26	.0	0		0	0	0
SOUTH KONA 2.31	75.5	59.9	57.7		82	30	57	18+		0	0	0	0	2.14		.47	6	.0	0		2	0	0
WAIKAKA SCO 88.2														15.84		3.80	19	.0	0		10	0	0
ISLAND			71.0											6.91				.0					0

SEE REFERENCE NOTES FOLLOWING STATION INDEX

## MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

HAWAII AND PACIFIC  
JUNE 1978

STATION	TEMPERATURE										PRECIPITATION													
	AVERAGE MAXIMUM	AVERAGE MINIMUM	AVERAGE	DEPARTURE FROM NORMAL	HIGHEST	DATE	LOWEST	DATE	DEGREE DAYS	NO. OF DAYS				TOTAL	DEPARTURE FROM NORMAL	GREATEST DAY	DATE	SNOW, SLEET		NO. OF DAYS				
										MAX.	MIN.	TOTAL	DEPARTURE FROM NORMAL					GREATEST DAY	DATE	TOTAL	MAX. DEPTH ON GROUND	DATE	1.00 OR MORE	5.00 OR MORE
PACIFIC																								
LAST OF 180TH MERIDIAN																								
ATU'U																								
CANTON ISLAND	88.5M	78.2M	83.4M		90	19+	74	29+			6.63		2.12	6	.0	0		11	5	1				
FALERSO VILLAGE											1.09				.0	0		0	0	0				
JOHNSTON IS WSO AP	84.2	77.4	80.8	.6	85	15+	75	29+			15.02		2.53	2	.0	0		19	10	5				
LEONE											1.08	-.05	-.33	19	.0	0		4	0	0				
FRENCH FRIGATE SHOALS	80.4	70.4	75.4	- 2.0	83	24+	65	10			4.40	- 2.93	-.91	10	.0	0		7	4	0				
MIDWAY SAND ISLAND	82.1	72.8	77.5	1.8	85	25	70	20+			2.18	- .78	1.91	20	.0	0		2	1	1				
PAGO PAGO WSO AP	85.0	74.5	79.8	.7	89	25	69	29			2.62	- 6.79	-.59	6	.0	0		9	1	0				
WESTERN PACIFIC ISL. NORTH OF 12 N																								
ANDERSEN AFB GUAM	82.0	75.4	78.7	- 2.1	85	30+	72	23+			9.86	- 5.22	1.94	23	.0	0		17	7	2				
CLARK AFB LUZON	86.5	74.9	80.7	- 1.2	93	7+	73	27+			5.66	- 5.23	.82	1	.0	0		16	4	0				
GUAM NAS	87.3	77.7	82.5	.7	91	1	75	24+			11.19	- 6.28	1.35	19	.0	0		18	10	3				
GUAM WSMO	87.0	72.8	79.9	.1	90	1	68	5			7.89	- 2.70	1.00	11	.0	0		19	7	1				
MANGIAD											10.32		1.40	18	.0	0		15	8	5				
ROTA											11.36		2.10	21	.0	0								
SAIPAN LORAN																								
WAKE ISLAND WSO AP	87.5	75.6	81.6	.1	90	30	71	18+			5.42	- 3.07	1.15	18	.0	0		9	4	2				
CAROLINE AND MARSHALL ISLANDS																								
ANGUAR																								
ENEWETAK	87.6M	78.1M	82.9M	.1	90	5	74	25			1.44	- 2.50	-.54	28	.0	0		4	1	0				
FALALOP I ULITHI ATOLL																								
KAPINGAMARANGI ATOLL	88.2	75.4	81.8	.2	91	28+	73	28+			16.04	- 2.29	4.98	11	.0	0		18	6	4				
KOROR WSO																								
KWAJALEIN MISSILE RGN	86.7	76.7	81.7	- .2	90	25	73	28+			7.11	- 2.82	1.51	27	.0	0		13	5	2				
LELE I KOSRAE	88.3	75.0	81.7	.7	92	8	71	28+			11.05	- 7.74	1.80	11	.0	0		16	10	3				
MAJURO WSO AP	86.0	75.8	80.9	- .1	88	14+	73	28+			10.70	- 1.47	1.80	14	.0	0		19	8	4				
METALANIM	86.8	74.0	80.4		89	30+	71	24			18.03		3.40	23	.0	0		24	11	5				
MOKIL ATOLL																								
NGASANG, BABELTHUAP																								
PONAPE WSO	87.9	73.3	80.6	.1	90	30+	71	29+			19.27	- 3.61	3.39	19	.0	0		23	11	6				
SATAWAN ATOLL																								
TRUK, MOEN I. WSO AP	87.7	76.3	82.0	.7	90	29+	73	18			10.10	- 2.49	2.52	17	.0	0		19	8	3				
WOLEAI ATOLL																								
YAP WSO AP	88.0	74.6	81.3	- .4	90	15+	71	26			12.89	- 1.99	4.29	12	.0	0		14	6	4				

SEE REFERENCE NOTES FOLLOWING STATION INDEX

# DAILY PRECIPITATION

HAWAII AND PACIFIC  
JUNE 1978

STATION	TOTAL	DAY OF MONTH																																			
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31					
HAWAII																																					
ISLAND OF KAUAI																																					
ANAHOLA 1114	A	3.37		.05	x		.25	.25	.10	.07					.03	.10	x	x		.15	.07	1.04	.64	.23	x		.02	.02			.35						
BYODESHOOD STA 985	A	9.45	.01	.05	x		1.55	.35	.21	.08	.02	x	x	.14	.20	.46	.37	.16	x		1.03	.26	.84	.73	.32	x		.64	.06		1.93	.04					
EAST LAHAI 934	A	11.25	.02	.07	x		2.00	.60	.68	.17	.40	x	x	.33	.36	.15	.14	.14	x		.90	.30	1.10	.83	.43	x		.61	.10	.05	1.62	.05					
ELELE 927	A	3.05			x		.48	.07	.06	x	x	x	x	.04	.06	.02	.07	.02	x	x	.11	.02	.36	.15	.05	x		.22	.02	1.31	T						
HAILUA 1110	A	4.40		.05	x		.25	.40	.10	.35		x	x	.04				.16	x		.24	.10	1.22	.65	.16	x		.12			.46	.03					
HALEMANAHO 1006	A	12.25		.19	x		2.11	.91	1.18	.17	.15	x	x	.05	.06	.03	.03	.14	x		.68	.72	1.64	1.02	1.02	x		.77	.15	.05	1.14	.04					
HANALEI TUNNEL 1053	A	8.40	x	x	x		x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	8.40					
HUKILO 945	A	.39					.02	.26	.04	.02						.03								.02													
ILILUA INTAKE 1050	A	20.76	.04	.14	x		3.20	1.08	1.17	.65	.63	x	x	.31	.24	.20	.38	.61	x	x	3.10	.61	2.18	2.10	1.69	x		.27	.19	.14	1.57	.26					
INTAKE WAIPIHA PC 1086	A	34.57			x		1.80	x	16.20	.01	x	x	x	x	.92	x		1.30	x					4.94	x		x					7.27					
KANALOHULU 1075	A	5.02		.03	.08		.02	.11	.32	.28	2.59	.02		.06	.03	.13	.07	.05	.09	.03	.04	.13	.19	.02	.01	.03		.09	.10	.02	.24	.24					
KANEHA RESERVOIR 1092	A	15.67		.40	x		4.10	.50	.95	1.20					.06	.05	.20	.19	x		.60	.74	1.65	1.45	.42	x		.20	.30	.18	2.00	.08					
KEAUA 1112	A	4.32		.15	x		x	.20	.35	.25	.10					.02	.08			x	.27	.08	.72	.69	.45	x		.04			.62						
KEKAHA 944	A	.45					.24	.09	.05	.05																						.02					
KILAUER 1134	A	7.44	x	.18	.50		.06	.55	.07	.71	.04	.10		.07	x	.06		.14	x	.11	.12	.21	.38	.23	2.09	.24	.30		.22	.04	.93	.09					
KILAUER POINT 1133	A	4.92	.01	.07	.14		.39	.11	.42	.23	.10	x	.02	.01	.02	.08	.02	.09	.08	.04	.05	.22	.11	1.57	.19	.35	.02	.08	.17	.13	.37	.03					
KOLOA 1033	A	1.80			.19		.12	.13		.07	.35										.19	.15	.51			x		.29	.23	.12	.30	.09					
KOLOA 936	A	12.93	.03	.15	x		3.44	.44	.79	.37	.30	x	x	.20	.18	.04	.09	.09	x		.76	.26	.91	.47	.76	x		.29	.23	.12	.30	.09					
KOLOA LM (PARK) 940.1	A	3.59					.08	1.19	.08	.02			.01		.04			.04	.09	.01	.03	.03	.18	.03	.38			.06	.02	.03	.07	1.12					
KOLOA MAUKA 994	A	11.31	x	x	x		x	3.25	.66	x	x	x	x	x	70	.16	x	x	x	x	x	2.45	2.00	x	x	x	x	2.01	.08	x							
KUKUIULA 935	A	6.11		.07	x		1.27	.42	1.05	.13	.05	x	.09		.01	.04	.01	.04	x		.21	.17	.40	.21	.41	x		.10	.12	.05	1.22	.03					
LIHUE VARIETY ST 1062.1	A	7.37		.28	x		.63	.74	.54	.12								.38	x		.68	.27	2.00	.57	.32	x		.09			.95						
LIHUE 1020	A	6.15		.04	x		.72	1.12	.22	.10			.01		.04			.15	x		.19	.12	1.65	.22	.55	x		.22	.07	.08	.65						
LIHUE WSO 1020.1 AP	A/R	4.56	.07	T	.04		.38	.76	.40	.04	.11	T		T	T	.01		.01		T	.01	.01	.18	.22	.40	T		.04	.05	.01	.53	.02					
MAHALEI 865	A	1.15		.01			.17	.02	.03	.03			.02		.03	.05		.02		.01	.01	.18	.03	.01							.54	.01					
MANA 1026	A	1.07		.51				.13	.09	.04											.07	.15	.02					.08	.08	1.08		.06					
MOHAKI WPA CROSS 1083	A	11.23	x	x	x		x	x	x	x	7.30			.08	.15	.38	.08	.38	.15	.08	.23	.62	.31	.08	.15			.27	.71	x	x	x					
MOLAA 1145	A	3.65	x	x	x		.41	x		x	x	x	.53		x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x					
MOUNT WAIKALEALE 1047	A	2.01					.81	.43	.13	.07													.22	.18								.17					
NIU RIDGE 1035	A	2.01					.81	.43	.13	.07													.22	.18								.17					
N WAILUA DITCH 1051	A	23.08	.04	.73	x		3.31	1.42	1.12	1.15	.46	x	x	.25	.40	.35	.68	.70	x		2.53	.42	2.95	2.50	1.62	x		.15	.23	.12	1.75	.20					
N WAILUA RIVER 1055	A	4.40	x	x	x		x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	4.40					
PAHIAHIA 1115	A	32.83	.10	x			4.30	1.82	3.65	6.94	.01	x	x	.24	.38	.22	.25	.19	x		1.76	1.00	1.59	3.45	.90	x		.48	.21	.41	4.93	T					
PRINCEVILLE RANCH 1117	A	10.99	.03	.23	x		1.47	.59	.87	.23	.06	x	x	.4	.45	.19	.12	.14	x		.58	.27	2.02	1.07	.73	x		.27	.15	.10	1.40	.02					
PUEHU RIDGE 1040	A	2.38		.09			.79	.59	.12	.05												.06	.20	.20								.23					
PUHI 1013	A	3.93	.03	.09	x		.74	.35	.31	.02	T			.02	.03			.09	x		.10	.12	.50	.07	.27	x		.04	.15	.05	.92	.03					
WAILUAHIA 930	A	4.80	T	.02	x		1.01	.14	.12	.02	.03	x	.08		.13	.06	.04	.05	x		.38	.18	.40	.18	.11	x		.38	.03	1.35	.01						
WAILUAHIA LOWER 1054	A	18.23	.03	.08	.10		.07	3.17	1.17	1.30	.46	.34	.08	.03	.10	.18	.16	.22	.45	.65	.78	.32	.43	3.26	1.57	.52	.22	.19	.04	.25	.08	1.38	.27				
WAILUAHIA UPPER 1052	A	21.98	.06	.50	.23		.48	2.97	.67	1.35	.65	.03	.12	.08	.22	.37	.28	.48	.50	.83	.76	.40	1.00	3.86	1.90	1.35	.23	.15	.01	.35	.07	1.68	.38				
WAILUAHIA 943	A	.44					.30	.08																								.04					
WAILUAHIA KAI 1065	A	3.98		.26	x		.23	.34	.28	.19	.08				.02	.13		.10	x		.36	.19	.61	.59	.05	x		.06	.08	.04	.43	.02					
WAILUAHIA 947	A	.54					.12	.08	.16	.06														.04							.08						
WEST LAHAI 931	A	6.05	.03	.07	x		1.28	.27	.28	.23	.09	x	x	.12	.06	.05	.03	.05	x		.56	.17	.56	.22	.19	x		.27	.10	.02	1.35	.05					
ISLAND OF OAHU																																					
ALOHA STADIUM-HAWAII	A	2.80					.01	.55							.02	.04		.05	.02	x	.09		.53	.03	T	.01	x	.01	.02	.06	1.36						
BERETANIA PUMPING STA	A	2.19					.71	.03	.01					T	.02	.03	.05	x		.18	.03	.04	x	.11	T	.02		.02	.28	.68							
B Y U LAKE 903.1	A	4.39	x	.03	.02		.02	.04	.83	.06	.07		.08		.11			.08	x		.42	1.80			.05	x		.25	T	.46	1.17	.01					
CAMOGUE INO PK 702.5	A	9.95					T	T	T	T	T										.60	T			.10	.03	.22										
COCONUT ISLAND 840.1	A	2.60	x				.11	.13	.03	.08	x	x	x	.01	.02	.02	.07	x			.12	.02	.63	.12	T	x		.11	x	.31	.82						
EWA PLANTATION 741	A	1.41					.20	.18															.29					.09	.03	.64							
HONOLULU OBSERV 702.2	A	1.11					.09	.13															.28				T	.08	.10	.43							
HONOLULU WSO 703 AP	A	1.06					.23							T	T	T	T	T	T		.02	T		.01	T		.05	T	.68	.01	T						
KAHANA POINT 841.3	A	4.43	x	x	x		x	.47	.02	x	x	x	x	6.52	T	x	x	x	x	10	x	x	3.33	.30	x	x	x	x	x	x	2.21	x					
KAHANA 883	A	23.14	x	x	x		4.51	x		x	x	x	x	x	x	x	x																				

# DAILY PRECIPITATION

HAWAII AND PACIFIC  
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STATION		TOTAL	DAY OF MONTH																																
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
HAWAII																																			
WAIKAEKUA 685			A	1.35		x	x	.48	x		x	x	x		x	x	.26	x	x	x		x	x	.12		x	x		x	x	x		.49		
ISLAND OF MAUI																																			
AIWAHI 252			A	.15	x	x	x	x	x	x	x	x	x	x	x	.15	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x		
HAELAAU 477			A	8.00																															
HALEKALA B E S 434			A	5.52	.01	.17							.01	.36			.01	.23	.14	.05	.06	.01	.51	.12	1.41	.41	.02	.01	.02	1.26	.71				
HALEKALA RANCH 432			A	1.92	x	x	x	x	x	x	x	x	x	x	x	x		x	x	x	x	x	.26		.62	x	x	x	x	x	x	.75	.29	x	
HALEKALA RS 338			A	3.27		.14	x					.13	T	T	T		.02	T	.02	T	.02	T	.73	.02	1.41	.27	.01	T	.02			.29	.19		
HALIIMILE 423			A	2.41		.04								.33							.21	.02	.11	.10	.22	.29					.75	.34			
HAKAPUPOKO 485			A	3.85		.12	.01						.20	.11	.03	.27	.10	.14	.37	.14	.13	.11	.32	.16	.38	.03	.03	.11	.21	.70	.03	.10			
HANA AIRPORT 355			A	4.12		.50		.13		.15	.07	.03		.02	.11		.05	.05	.08	.30	.33	.30	.03	.29	.17	.27	.04	.10	.10	.15	.69	.03	.13		
HOLUA CABIN 259.5			A	2.96	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	2.96	x		
HONOKAHU 480			A	13.70	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	13.70			
HONOKAHU 493			A	4.50	.25	.15	.12		.04	x	1.30	.08	.06		.04	x	x	.46	.10				x	1.05	.03	.75		.03	x	x	x	.05			
HONOLUA FIELD 49 494			A	2.83					x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	2.83			
HONOHANU GULCH 341			A	10.00																													10.00		
KANAPALI AP 453.1			A	.76			T		.05	.03				.06	.02				.02	.01			T		.02							.18	.37		
KAHOA INTAKE 374			A	3.30																													3.30		
KAHULUI WSD 398 AP			A	.61	.03		.03						.10					T	.01			.03	T	.10	.03				.14		.14		12.13		
KAILUHI 436			A	12.13	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	12.13		
KAILUA 446			A	10.02	.03	.20				.08	.27	.27			.26	.05	.39	.37	.57	x	x	2.15	.18	1.28	.31	.25	x	1.24	.28	1.55	.04	.25			
KAILUA INTAKE 375			A	1.79						.03	x	x	x	x	x		.08	x					.93								.75	x	.62		
KEAHUA 410			A	.62		.01												T				.03		.02	.11	.02					.39	.04			
KEANAE 346			A	19.10	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	19.10			
KEAWAKAPO BEACH 260.2			A	.13			.01																.09								.02	.01			
KIHEI 311			A	5.96							.49	.22						.16	.12				.60	.40	.35	.10	.46								
KIPAHULU 258			A	30.00	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	30.00			
KUKUI 380			A																																
KULA SANATORIUM 267			A	.63		.12		.04	T		.21	T										.19	.04					.03	T			.47			
LAHAINA 361			A	.47																															
LAUNIUPOKO INTAKE 376			A	5.52	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	5.52			
LAUNIUPOKO VILLAGE 372			A	.12																			.03									.09			
LUPU UPPER 442			A	11.00	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	11.00			
MAHINAHA 466			A	3.50		.07			.05					.35				.14	.10		.08		.37	.04	.16				.16		.60	1.38			
MOKEPE 475			A	8.80	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	8.80			
MAKALELE FIELD 60 497			A	3.98	x	x	x	x	.50	x	x	x	x	x	.72					.69	x	x	x	x	x	x	x	x	x	x	x	x			
OLINDO 332			A	5.66	x	.35	x		.10				.04	x		.12	x	x	x	x	x	1.05	x	x	x	x	x	x	x	x	x	x			
OLUHUA 296.1			A	.00																															
PAKAA 350			A	16.53	.22	.33	x	.30	x	x	x	.74	x	.55	.42	x	2.00	x	x	3.60	.12	x	3.10	.66	x	x	1.65	.57	x	1.99	.28				
PAIA 406			A	1.59		.05							.15	.14			.03	.05	.17	.03	T	.03	.13	.05	.18	.01	T	T	.02		.50	.05	T		
PANLEIHULU 259.2			A	6.00																													6.00		
POHAKA BRIDGE 307.2			A	.22																			.13									.09			
POLIPOLI SPRINGS 267.2			A	1.75	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	1.75			
PUBOHAKA 2 343			A																																
PUNENE 396			A	.36																															
SPRECKELSVILLE 400.2			A	.06		.03	.02		.21	.02													.02	.02								.25	.05		
TWIN GATES 261.3			A	.17	x	x	x	x	x	x	x	x	x	x	x	x	x	T	.04	.01			.03	.05	.12	.01	x	x		.02		.35	.05		
UKULELE 333			A	5.06	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x		.17		
UKUEHAME 301			A	.00																													5.06		
ULUPALAKA RANCH 250			A	1.40		.20			.17	x	.04												.45	.25				.19		.09	.01				
WAIKULU 364			A	1.42		.03																	.05	.03								.31			
WAIHEU CAMP 484			A	1.16				.09	.07				.05										.18	.23				.17	.02	.05	.27	.14			
WAIHEE VALLEY 482			A	1.76		.08		.18	.09				.10					.03	.16				.14									.25	.22		
WAIKANI 449			A	14.60																															
WAIKAPU 390			A	.65																													14.60		
WAILUKU 386			A	.65		.01		.02	.03					.04									.11	.10							.39				
WAIWAI RANCH 256			A	.00																	.03	T	.08	.02	.12			.0							



# DAILY PRECIPITATION

HAWAII AND PACIFIC  
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STATION	TOTAL	DAY OF MONTH																																				
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31						
HAWAII																																						
NAP0000 28	A	6.46	x	x	x		T	1.41	x		x	x	x		x	x	x		x	x	x		1.07	x	x		x	x	x		x	3.09	x		x	x	x	
OKALA 223		11.50																																				
OPHIHALA 2 24.1		7.22	.14	.30	.15		.06	.09	.24		.01	.14	.30		T		T		.02	.01	.02		.23	T		.10	.32	1.49		.32	1.80	.15	.26	T		.48	.58	.01
ORCHID LAND EST 91.5	A	9.65	x	2.35	x		x	x	x		x	x	.69		x	x	x		1.20	x	x		x	x	x		x	5.41	x		x	x	x		x	x	x	
PAALUHAU 217		5.71			.04						.02					.03	.30		.08		.02		2.08	.05	.08		.26	.97	.42		.24	.16	.28	.52		.16		
PAALUHAU 221		8.65	T	.13											.13	.52		.03		T		.12	.12	.03		2.01	.82	.02		.53	1.18	1.40	.28	.25	.08	.83		.17
PAHALA 21	A	2.90	.35	.05	x		.51		.01			.84					.03						.10				T				T		.68	.33				
PAHALA 65		10.78	.09	x		x	.22			.39	.35	.45	x	x	.18		.18	.15	.55	.63	x	x	3.15	.73	.17		.52	.39	x		x	1.45	.19	.62	.14	.22		
PAPAIAHU 144.1		13.72	.02	x		x	.01			.78	.24	.04	x	x	.73		.10	.02	.47	.45	x	x	4.65	.92	.34		.39	.81	x		x	2.44	.12	.60	.09	.50		
PAPAIAHU MAUKA 140.1		17.40	.02	.09	x		x	.01		.41	.12	.12	x	x	1.49		.04	.16	.67	.73	x	x	6.86	.63	.18		.76	1.35	x		x	2.26	.20	.75	.12	.43		
PIHONUA 88	A	21.60	x	x	x		x	x	x		x	x	x		x	x	x	x	x	x	x	x	x	x		x	x	x		x	x	x	x	x	21.60			
PULUHULA MEIAU 98.1		.10									.04																				.05							
PUU LEHUA 73	A	2.30	x	x	x		x	x	x		x	x	x		x	x	x		x	x	x		x	x	x		x	x	x		x	x	x	2.30				
SOUTH KONA 2.31		2.14	.45	.26	.26		.24	.03			.47				.03		.08	.07	.04			.05					.03			.04	.04	.05						
SOUTH POINT CORRAL 3	A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
UPOLU POINT USCG 159.2		2.28									T		T		.25	.11	.12	.11	.03	.17	.07	T		.30	T	.01		.12	.53	.03		T	.25	.13		.05		
WAIKAE SCD 88.2		15.84								.21	.43	.18		.09	.25	.36	.61	.42	.82	.45	.66	.81	3.80	.89	.56		.64	2.16	.52		.42	.26	.22	.38	.22	.16		
WAIKAE-8015 CAS 95.8		.67	.07	.25				.41	.01				x	x	.05		.14						T		.04		.01				.01							

SEE REFERENCE NOTES FOLLOWING STATION INDEX

# DAILY PRECIPITATION

HAWAII AND PACIFIC  
JUNE  
1978

STATION	TOTAL	DAY OF MONTH																														
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
PACIFIC																																
* * *																																
EAST OF 180TH																																
MERIDIAN																																
ATU U	6.63	.12	.03			2.12		.51	.05			.19	.01	.84	.02	.03			.01		.38	.69	.65	.36	.42							.10
CANTON ISLAND	1.09								.21	.20								.23	.32	*	.40		.01	.04								
FALEASAO VILLAGE	15.02	1.04	2.53	.76	.18	.83	2.03			.26	.42	.98	.15	.79				.38		.14	.38		.01	T	.06	.15	.62	1.07	.08	1.96	.03	
JOHNSTON IS WSO AP	1.08		T	.09			.04	.01			.04	T		.01	.01	T		.02	.03	T	.33		T	.02	.06	.12	.15	.04	.01	.10		
LEONE																																
FRENCH FRIGATE SHOALS	4.40	.65	.05	.71	.01	.02	.02	.02	.01	.02	.91	.88		.04	.04	.02		.02	.03		.40	.02	.11	.01	.30	.07	.02	.02				
MIDWAY SAND ISLAND	2.18						.01			T		T	.02	.16	.01	T	T		.01		T	.09	.01	.13	.05					.04	T	
PAGO PAGO WSO AP	2.62	.03	.48	.16		.11	.59		T	.30	T		.16	.01	T	T		.01		T	.09	.01		.01	.01	.27	.20			.11	.07	
* * *																																
WESTERN PACIFIC ISL.																																
NORTH OF 12 N																																
ANDERSEN AFB GUAM	9.86		.31	.61	.11	.03	.13	.02	.46	.10	1.42	.80	.03	T	.06	.17		.23	.70	.18	.93	.01	.07	.83	1.84	.07	.18	.05	.40	T	.01	T
CLARK AFB LUZON	5.66	.82	.51	.26	T				.71	.22	.23	.64	.32	.12	.36	.06	T	.22	.18	.34	T			.33	.18	.62	.03	.13	.09	T		
GUAM NAS	11.19		.35	.79	.22		.02	.19	.71	.09	.54	.78		.32	.29	T	.40	1.12	.71	1.35	.05	.03	.38	1.27	T	.07	.03	.04	.11	.60	.72	
GUAM WSO	7.89		.38	.23	.05	.04	.04	.16	.56	.09	.90	1.00	T		.11	.04	.17	.83	.32	.64	.01	.14	.23	.53	.12	.01	.18	.19	.14	.75	.03	
MANGILAO	10.32		1.06		.06	.14	.05	.08	.14	.31	.61	.36	.60	.03	.32		.05	.30	1.40	1.37	.05	.27	1.18			.04	1.08		.77	.05		
ROTA	11.36	.14	.11	*	*	.13	.04	.01	.01	.36	*	*	1.92	.73	.98	.24	.11	*	*	1.13	.98	2.10	1.03	.27	*	*	.63	.17	.06	.04	.17	
SAIPAN LOWAN	5.42	.01		.04	.04		.02	.32	.73	.31	T	.02	.04	.03	T				1.15	.02	.04	.04	.01	.34	.89	1.08	.13	.14	T		.02	
* * *																																
CAROLINE AND																																
MARSHALL ISLANDS																																
ANGUAR																																
ENUEWETAK	1.44	.01					.05	.21	.20					.01		*	.01			.01		.01		.02		.05	.25			.54	.02	.05
FALALOP I ULITHI ATOLL																																
KAPINGAMARANGI ATOLL																																
KOROR WSO	16.04	.96	.13	.07	1.85	.22	.38	.16	.44	.26	.04	4.98	.03				2.59	.01	.14	.07	.87	.15	1.36	.06	.13	.48			T	.30	.34	
KWJAELEIN MISSILE RGN	7.11	T	.28	T	T	.05	T	.58	T	.01	.16	.22			.45	1.05	.07	.24	.04	T	.18	.48	.04	.27	.58	T	.02	1.51	.78	T	.08	
LELE I KOSRAE	11.06	.05	.15		.34	1.26		.50	T	.50	.22	1.80	.02		.14	1.41	.67	.20	.66	.66	.04	.84		.23	.98	.04		.01	.84			
MAJURO WSO AP	10.70		.06	.61	1.61	.02	.09	.05	.14	.10	.15	1.11	.73	.17	1.80	.24	.01	.10	.17	.09	.27	T	T	.23	.56	T	.22	.98	1.07		.12	
METALANIM	18.03	.30	2.80	.76	1.30	.40	.49	1.38	.35	.26	.30		.03	.06	.29	T	.16	.81	.10	1.55	.37	.50	.55	3.40	.56	.30			.12	.32	.55	
MOKIL ATOLL																																
NGASANG-BABELTHURP																																
PONAPE WSO	19.27	.35	1.76	1.23	1.18	.08	1.57	.50	.21	.48	.75		.21	.27	.40	.38	.05	.22	.33	3.39	.02	.82	.28	2.92	.61	.34	.04	.08	.62	.10	.07	
SATAVAN ATOLL																																
TRUK WSO AP	10.10	.01	.22	.12	.92	.08	.25	.08	.11	.50	.11			.20	T	.15	1.05	2.52	1.11	.04	.06	.11	.51	.44	.53			.23	.11	.64		
WOLEAI ATOLL																																
YAP WSO AP	12.88	.05	.01	.02	.08	.17	.07	.36	.06	.02		.66	4.29		.01		.40	.02	1.46	.24	.15	1.93	.03	.40	.46	.31	T	.57	.04		1.08	

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# DAILY TEMPERATURES

HAWAII AND PACIFIC  
JUNE 1978

STATION		DAY OF MONTH																															AVERAGE
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
HAWAII																																	
ISLAND OF KAUAI																																	
KANALOHULUMULU 1075	MAX MIN	72 48	73 54	70 54	72 50	68 50	71 58	66 59	70 54	71 58	70 58	68 55	71 56	72 55	71 58	69 57	68 58	71 56	70 57	70 52	71 57	70 58	72 59	67 58	70 54	72 56	72 58	70 58	69 59	74 63	75 69	70.5 56.5	
KILAUEA POINT 1133	MAX MIN	84 68	84 71	84 69	84 69	84 72	77 67	80 71	81 71		81 73	83 74	83 74	85 72	84 73	82 72	83 71	80 68	82 72	82 72	81 71	83 71	79 68	82 69	86 73	83 74	84 74	84 70	83 72	78 70	84 73	82.4 71.2	
KOLOA LN (MAK) 940.1	MAX MIN	85 70	84 71	84 70	85 72	85 73	84 72	81 71	83 72	82 72	84 78	83 73	84 77	84 74	82 75	85 76	83 73	83 73	84 72	83 72	84 71	84 70	84 71	82 71	84 73	85 76	86 74	85 70	83 73	84 74	83.8 72.9		
LIMUE WSO 1020.1 AP	MAX MIN	83 65	82 70	82 68	83 63	82 69	85 70	83 66	86 72	86 73	86 78	85 77	82 75	82 73	82 72	78 67	84 70	82 71	81 69	82 69	81 65	81 71	81 67	82 70	82 71	82 74	81 72	78 65	85 76	84 75	82.6 71.1		
NIU RIDGE 1035	MAX MIN	85 64	85 65			84 63	79 65	83 66	78 67	80 65			85 65	84 66	88 67	84 66	85 66			84 63	85 65	85 66	86 67	84 65				87 62	86 64	87 65	86 68	84.2 65.2	
WAIHAI LOWER 1054	MAX MIN	75 60	77 61	75 60	76 60	75 61	69 61	75 61	73 66	73 68	76 67	74 67	77 67	76 69	74 68	72 66	75 66			73 68	75 67	74 66	73 65	76 64	77 64	76 65	77 67	76 68	72 68	76 68	74.7 65.3		
ISLAND OF OAHU																																	
ALOHA STADIUM-HALAWA	MAX MIN	85 66	86 66	85 68	86 67	87 69	82 68	83 69	86 69	86 72	84 73	85 75		85 72	86 71	83 71	82 72			83 71	83 70	84 70	85 72	81 74	83 73		85 71	86 74	85 72	82 73	84 73	84.3 70.9	
B Y U LAIE 903.1	MAX MIN	87 70	85 69	84 70	83 68	84 69	84 66	84 66	83 67	84 67	83 68	82 67	85 67	86 68	84 65	86 66	85 66			85 71	84 69	81 68	82 69	82 68			82 68	82 68	78 66	80 68	83.4 67.8		
HONOLULU OBSERV 702.2	MAX MIN	86 64	84 65	87 64	85 67	87 69	83 67	88 65	89 67	89 71	89 73	88 74	88 71	88 72	89 70	87 72	88 72	88 68	89 70	89 68	89 69	88 72	88 72	88 67	87 69	90 70	88 72	84 72	89 70	87.6 69.5			
HONOLULU WSO 703 AP	MAX MIN	86 67	86 70	85 67	85 69	81 69	86 69	87 69	88 72	89 73	86 74	87 74	87 72	85 73	86 73	86 72	85 72	86 72	86 71	86 72	85 72	85 73	85 71	87 72	86 74	85 74	81 71	85 73	86 73	85.8 71.6			
KANEHIE MAUKA 781	MAX MIN	82 69	83 70	82 69	83 67	82 69	77 71	81 67	83 70	80 71	81 73	81 75	82 74	82 73	79 72	80 73	80 71	80 72	81 71	80 72	80 71	81 71	81 72	81 71	80 72	82 73	79 72	76 73	82 72	80.5 71.7			
MANDAR LYON ARBORETUM	MAX MIN	83 67	85 68	83 66	83 67	83 68	77 67	80 68	82 69	81 69	79 70	76 68	80 68	81 68	78 69	75 67	74 68	74 68	76 67	80 68	78 67	78 68	77 67	77 67	73 67	81 69	77 69	78 70	77 70	81 70	78.9 68.2		
OPAEULA 870	MAX MIN	80 63	80 66	80 65	80 63	80 66	80 67	79 66	80 67	80 67	80 66	80 68	80 67	80 69	80 69	80 70	78 69	80 70	80 68	80 67	80 66	80 68	79 68	80 70	80 69	79 68	76 68	80 70	80 69	80 70	79.6 67.5		
WAIALEE 896.3	MAX MIN	81 70	82 69		81 67	81 71	79 70	80 71	83 71	82 73	82 73	83 74	83 73	82 74	82 73	82 72	83 72	82 71	82 72	82 71	82 72	81 71	83 71	81 72	81 71	81 72	82 73	81 72	78 72	83 73	81.7 71.4		
WAIALUA 847	MAX MIN	85 61	82 62	84 62	80 64	80 64	80 67	82 62	87 63	87 65	84 66	84 68	82 67	86 69	81 67	85 67	86 68	82 67	82 66	85 66	85 68	85 68	85 67	85 68	80 62	84 64	84 66	85 67	81 69	86 69	83.4 65.9		
WAIKIKI 717.2	MAX MIN	86 64	86 68	86 64	87 67	87 68	83 67	87 67	83 71	86 72	87 73	88 74	88 72	87 73	88 71	84 72	86 73	85 72	88 72	87 66	88 70	89 71	88 71	86 70	88 71	86 72	87 74	86 72	85 73	87 72	86.7 70.5		
ISLAND OF MOLOKAI																																	
MOLOKAI AP 524	MAX MIN																																
ISLAND OF LANAI																																	
LANAI AIRPORT 656	MAX MIN	80 62	78 65	81 61	80 64	77 62	80 64	82 63	78 65	83 65	83 62	81 67	80 63	81 66	81 65	81 65	82 67	80 62	84 60	83 63	80 68	82 62	83 66	80 60	83 66	82 66	81 64	81 65	79 68	83 66	81.1 64.1		
LANAI CITY 672	MAX MIN	78 63	77 65			78 64	79 66	77 65	79 66	78 67		79 66	78 66	78 64	78 64	76 66	77 67	78 67	74 64	76 67	74 67	76 67	76 67	74 67	76 67	76 68	73 68	75 70	77 68	77 67	76.8 66.3		
ISLAND OF MAUI																																	
HALEAKALA RS 338	MAX MIN	63 40	63 41	63 42	62 41	64 42	63 41	63 42	64 42	64 43	65 42	65 39	63 39	61 39	63 51	67 54	73 50	71 46	66 42	65 46	64 41	63 49	62 47	62 47	58 40	60 45	63 47	65 51	65 51	68 46	70 54	64.3 44.7	
HANA AIRPORT 355	MAX MIN	81 68	82 65	82 67	84 68	83 68	83 69	84 70	84 74	84 74	84 75	85 75	84 75	83 74	81 72	84 69	84 70	83 70	83 74	80 72	84 72	83 72	82 73	84 69	83 72	83 72	84 70	82 73	84 73	85 75	83.1 70.6		
KAAHAPALI AP 453.1	MAX MIN	83 66	82 67	83 67	82 64	84 66	86 68	86 67	85 71	85 71	86 70	82 70	85 71	84 71	85 72	84 69	84 73	84 71	85 70	85 66	83 73	86 71	87 70	84 74	84 70	85 68	85 72	84 72	86 69	84 73	84.4 69.9		
KAHULUI WSO 398 AP	MAX MIN	85 66	85 69	85 63	86 66	86 66	88 68	90 68	89 69	89 70	89 68	84 69	88 75	88 72	88 73	87 67	87 72	87 72	86 72	85 66	89 70	87 66	85 67	86 67	88 72	88 74	89 75	90 75	89 75	87.3 70.8			
KAILUA 446	MAX MIN	79 67	78 68	79 62	80 65	79 64	79 70	80 68	80 68	79 68	80 69	78 68	77 69	79 68	79 68	77 66	76 66	77 66	78 65	75 65	76 66	78 67	78 67	77 67	78 67	78 67	77 67	81 67	79 67	78.3 67.4			
KEAWAKAPU BEACH 250.2	MAX MIN	87 65	85 65	87 63	88 66	88 65	90 66	87 65	90 65	89 65	87 66	89 68	87 65	92 66	89 66	88 66	90 66	90 66	91 68	91 64	87 70	92 68	93 66	87 68	90 69	95 67	91 68	92 68	92 68	89.5 66.9			
KULA SANATORIUM 267	MAX MIN	73 56	72 57	73 55	72 55	73 58	73 57	74 57	72 58	72 58	74 58	72 58		73 58	75 57	72 56	75 57	74 57	74 57	75 62	73 59	74 59	75 62	73 57	73 58	73 59	76 58	75 59	74 58	73.4 57.7			
LAHAINA 361	MAX MIN	84 66	87 66	87 68	87 68	86 70	87 69	86 66	87 69	87 70	86 73	87 71	88 69	85 68	87 68	88 67	88 71	88 68	88 70	86 66	87 72	88 69	88 70	88 68	87 69	88 71	88 68	90 71	85 67	88 68	87.0 68.8		

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# DAILY TEMPERATURES

HAWAII AND PACIFIC  
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STATION		DAY OF MONTH																															AVERAGE
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
HAWAII																																	
• • •																																	
ISLAND OF HAWAII																																	
HAWAII VOLCNS NP HQ 54	MAX MIN	68 52	70 53	70 52	71 53	73 50	73 53	73 55	69 54	77 55	67 56	69 55	67 55	67 55	63 54	66 55	67 56	65 55	68 57	68 52	74 57	67 56	64 52	68 55	71 57	67 56	74 60	72 56	71 57				69.0 54.8
HILO WSO AP 87	MAX MIN	85 66	83 67	85 68	86 66	86 66	86 66	84 68	82 69	83 71	85 70	83 70	85 70	84 69	84 70	85 68	83 70	83 69	83 69	79 70	84 65	84 70	83 71	83 69	80 70	83 67	84 70	83 71	86 73	86 73	84 71		83.8 69.1
KAINALIU 73.2	MAX MIN	76 60	78 59	76 59	78 59	77 61	78 62	78 61	83 61	79 62	80 61	79 64	80 63	76 62	82 63	78 63	77 63	79 62	78 61	79 61	79 60	79 62	80 63	78 61	76 62	79 62	78 64	80 63	78 65	79 65			78.4 61.9
KAMUELA 192.2	MAX MIN	77 52	78 58	76 53	80 53	77 55	78 60	75 65	76 61	75 62	76 62	74 60	74 60	75 62	73 58	73 60	70 61	71 61	74 61	73 61	72 60	75 61	75 62			76 60	74 62	70 61	78 62	72 63			74.6 60.0
KAPOHO BEACH 93.11	MAX MIN	85 69	86 68	85 70	87 64	88 66	88 68	87 69	85 69	85 70	85 71	88 75	89 71	90 73	87 69	86 69	85 70	83 69	85 69	84 70	85 68	86 70	86 72	84 71	82 70	85 69	84 70	85 73		89 73	88 72		85.9 69.9
KONA (KAILUA) 68.3	MAX MIN	83 70	86 70	85 70	84 69	83 70	85 73	85 71	86 72	86 71	85 73	86 74	87 73	85 71	85 71	84 70	84 71	83 70	83 70	86 70	83 73	84 73	84 72	85 73	84 73	85 73	85 73	83 73	86 73	87 75	87 76		84.8 71.8
KULANI CAMP 79	MAX MIN	61 55	63 47	62 45	65 48	64 57	66 54	63 51	67 57	65 54		67 51	65 49	62 53	62 53	63 45	62 48	62 53	59 49	62 52	60 47	67 54	65 55	66 51	59 49	61 48	63 47	63 51	64 52	67 54	69 62		63.6 51.2
MAUNA LOA SLOPE OBS	MAX MIN	51 36	51 34	47 34	49 31	53 32	55 36	52 36	52 36	53 41	61 38	60 40	59 42	62 42	59 42	60 42	59 41	58 40	53 37	50 34	53 35	51 36	52 35	48 34	47 33	50 35	56 39	57 40	59 41	57 36	55 36		54.3 37.1
MOUNTAIN VIEW 91	MAX MIN	77 60	78 60	80 60	80 61	81 59	82 58	81 59	74 63	73 63	74 62	77 62	78 63	78 63	73 61	73 62	77 62	77 63	76 63	76 63	72 58	79 58	74 62	70 62	75 62	79 60	75 64	79 64	80 65	78 64			77.0 61.8
MAALEHU 14	MAX MIN	79 64	79 64	75 63	76 62	79 63	79 64	80 65	78 67	77 67	75 66	80 67	79 67	75 68	78 67	73 67	78 67	76 65	76 65	79 66	78 65	81 65	80 69	79 67	77 62	75 65	80 64	80 64	84 66	80 69	80 66		78.4 65.5
OOKALA 223	MAX MIN	80 67	80 66	79 69	81 65	81 68	81 66	82 68	82 68	82 69	82 64	82 63	80 68	80 68	79 68	80 68	79 67	80 67	80 67	75 67	78 66	81 66	81 70	79 68	77 66	77 68	80 67	81 68	81 61	81 71	69		80.1 67.2
OPIHIHALE 2 24.1	MAX MIN	80 64	76 61	79 62	77 63	80 65	81 63	81 63	79 64	82 64	82 65	81 62	81 62	81 65	78 65	79 66	80 63	78 62	79 63	81 66	78 61	80 63	77 64	81 65	79 62	79 63	83 64	81 67	83 68	82 64			79.9 63.9
PUUKOHOLA HEIAU 98.1	MAX MIN	87 69	88 69	88 69	88 68	88 68	89 67	89 67	89 67	89 71	90 71	90 71	92 71	83 68	91 69	91 71	90 71	91 70	83 69	83 68	83 68	90 69		81 71	79 70	77 71	82 71	80 74	90 70	92 68			87.1 69.4
SOUTH KONA 2.31	MAX MIN	71 58	75 60	73 57	74 57	72 57	76 60	79 58	71 59	73 60	76 61	76 63	75 62	74 61	77 62	72 60	73 60	76 57	78 63	76 62	79 64	76 61	76 58	76 59	76 59	76 59	76 59	80 61	79 63	82 58			75.5 59.9
UPOLU POINT USCG 159.2	MAX MIN	85 66	85 69	85 71	88 69	86 69	85 70	86 69	87 70	87 71	87 67	86 67	86 70	86 69	84 70	85 68	83 69	85 69	83 69	83 69	85 71	85 69	84 69	82 69	83 70	84 71	84 72	83 72	85 73	84 70			84.8 69.5

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# DAILY TEMPERATURES

HAWAII AND PACIFIC  
JUNE 1978

STATION		DAY OF MONTH																															AVERAGE	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
PACIFIC																																		
• • •																																		
EAST OF 180TH MERIDIAN																																		
CANTON ISLAND	MAX MIN	90 80	88 79	88 80		89 80	89 78	89 78	88 77	88 77	88 79		88 78	88 79	89 74	89 78	89 77	89 77		90 80	88 80	89 80	88 78	89 79	87 81		89 80	89 74	88 76	88 74	88 79		88.5 78.2	
JOHNSTON IS WSO AP	MAX MIN	84 78	84 77	84 76	85 78	85 78	84 77	84 78	85 78	85 78	84 78	85 80	85 76	84 77	85 80	84 77	84 77	84 79		84 76	84 79	84 78	84 78	84 77		83 75	83 76	84 75	84 77	84 75	84 79		84.2 77.4	
LEONE	MAX MIN																																	
FRENCH FRIGATE SHOALS	MAX MIN	80 72	80 71	81 71	76 68	75 71	80 67	80 70	80 69	79 68	76 65	79 73	81 72	81 69	82 72	82 71	83 72	82 74	81 72	81 68	80 70	81 69	81 72	82 72	83 69	81 72	82 68	77 68	82 71	82 72	81 73		80.4 70.4	
MIDWAY SAND ISLAND	MAX MIN	81 72	82 72	81 72	82 72	82 72	82 72	82 72	81 71	81 70	82 70	84 71	83 74	82 72	81 74	82 71	79 72	81 72	82 74	84 76	83 70	80 76	82 75	83 76	83 76	85 74	84 75	81 74	83 73	82 72	82 72		82.1 72.8	
PAGO PAGO WSO AP	MAX MIN	85 73	83 74	85 72	84 72	83 71	83 74	84 72	86 79	87 74	86 73	87 73	86 75	83 75	81 75	82 76	84 71	85 79	85 78	84 78	85 80	86 80	85 76	87 77	87 78		89 73	86 73	85 71	85 70	86 69	86 74		85.0 74.5
• • •																																		
WESTERN PACIFIC ISL. NORTH OF 12 N																																		
ANDERSEN AFB GUAM	MAX MIN	85 78	85 78	84 75	83 78	84 78	85 78	84 78	82 77	84 76	82 73	78 73	80 72	81 74	82 76	83 78	83 76	82 75	84 74	79 74	83 76	82 74	77 74	80 72	80 73	81 75	80 75	79 73	80 74	83 74	85 80		82.0 75.4	
CLARK AFB LUZON	MAX MIN	79 75	82 75	88 73	90 73	90 75	93 77	93 79	91 77	84 75	86 73	82 75	84 75	86 75	86 77	86 75	90 75	86 73	88 75	88 73	86 75	90 75	86 75	84 73	82 73	81 73	84 73	84 77	88 73	88 77	90 77		86.5 74.9	
GUAM NAS	MAX MIN	91 80	89 79	89 77	87 78	89 79	90 80	89 78	89 78	89 78	85 76	82 78	87 78	84 77	87 78	88 79	88 79	88 75	87 77	85 76	87 79	86 79	84 78	82 75	90 75	90 77	89 78	89 79	86 78	85 79	88 80		87.3 77.7	
GUAM WSO	MAX MIN	90 74	89 72	89 72	88 73	88 68	89 76	88 72	87 73	87 75	86 73	83 73	88 73	88 71	88 74	87 77	88 75	87 72	87 70	84 72	88 73	87 71	84 73	85 72	86 74	86 74	86 72	87 70	86 74	86 72	88 74		87.0 72.8	
SAIPAN LORAN	MAX MIN																																	
WAKE ISLAND WSO AP	MAX MIN	89 77	88 76	88 75	88 75	89 77	88 75	88 73	84 71	87 74	88 76	87 76	87 75	87 75	87 78	89 78	88 77	88 77	86 71	87 77	88 76	87 76	88 74	88 74	85 74	85 72	87 76	89 75	88 78	89 77	90 77		87.5 75.6	
• • •																																		
CAROLINE AND MARSHALL ISLANDS																																		
ENNEWETAK	MAX MIN	87 81	88 79	88 78	89 78	90 79	89 75	87 77	86 76		89 80	86 80	88 75	88 79	89 78		87 78	87 79	86 77	86 81	89 77		86 78	89 78	88 78	87 74	88 82	88 79	85 75	87 77	87 79		87.6 78.1	
FALALOP I ULITHI ATOLL	MAX MIN																																	
KAPINGAMARANGI ATOLL	MAX MIN																																	
KOROR WSO	MAX MIN	91 76	87 75	89 77	84 74	90 78	89 76	90 75	90 75	89 75	89 75	85 75	82 75	89 75	89 77	91 76	89 74	89 75	89 75	89 77	87 75	89 75	85 74	90 76	84 76	84 76	89 75	90 76	87 78	91 73	90 76		88.2 75.4	
KWAJALEIN MISSILE RGN	MAX MIN	87 79	85 76	87 79	87 78	85 76	86 78	86 74	87 78	88 78	88 76	87 77	87 78	87 80	88 76	82 75	87 78	87 76	87 79	87 80	84 75	87 75	87 77	88 74	87 73	88 76	87 78	87 75	85 73	87 77	87 78		86.7 76.7	
LELE I KOSRAE	MAX MIN	89 78	89 79	90 76	89 77	83 74	88 77	89 76	92 78	91 74	85 71	85 71	90 74	90 75	89 73	85 73	82 76	88 75	88 76	90 76	87 75	86 75	90 77	91 73	88 72	89 76	91 75	91 75	88 71	88 77	89 78		88.3 75.0	
MAJURO WSO AP	MAX MIN	87 79	85 76	87 75	86 75	87 75	87 75	86 76	85 77	88 78	86 77	84 78	86 74	87 77	88 74	83 75	87 76	87 76	87 76	86 76	84 76	87 77	87 76	85 75	82 75	87 76	85 75	82 76	87 73	87 76	86 75		86.0 75.8	
METALANIM	MAX MIN	88 76	83 74	87 75	86 73	86 73	88 76	84 74	88 72	87 72	85 73	87 74	88 73	89 75	87 74	87 75	88 75	86 74	86 75	83 73	87 74	88 75	87 75	85 75	83 71	89 74	88 72	89 74	87 74	88 73	89 76		86.8 74.0	
PONAPE WSO	MAX MIN	89 75	86 74	88 75	87 72	88 73	88 74	85 73	89 71	88 78	87 72	87 71	90 73	90 73	90 74	90 73	90 74	86 74	88 75	82 73	89 73	89 73	87 75	86 73	82 71	88 73	89 72	90 73	89 72	90 71	90 76		87.9 73.3	
SATAWAN ATOLL	MAX MIN																																	
TRUK, MOEN I. WSO AP	MAX MIN	89 78	89 77	89 78	86 75	89 77	89 77	89 75	90 77	87 75	86 78	89 79	89 77	89 75	89 76	89 78	83 75	82 74	86 73	88 76	87 77	88 76	88 77	88 77	82 75	87 75	88 76	88 78	89 77	87 76	90 75	89 76		87.7 76.3
WOLEAI ATOLL	MAX MIN																																	
YAP WSO AP	MAX MIN	89 76	90 77	90 76	88 73	90 76	89 77	90 76	90 75	90 75	89 72	89 74	84 73	89 75	89 74	90 75	86 77	88 75	81 73	88 74	89 75	89 74	87 73	85 75	84 75	86 74	88 71	89 76	88 73	88 74	88 75		88.0 74.6	

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# EVAPORATION AND WIND

HAWAII AND PACIFIC  
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STATION		DAY OF MONTH																															TOTAL OR AVG.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
HAWAII ISLAND OF KAUAI		EVAP WIND MAX MIN	.32 109 86 62	.28 133 85 63	.30 106 87 64	.34 95 86 62	.27 193 82 63	.17 202 74 61	.25 186 79 64	.22 155 86 65	.22 179 88 67	.26 179 88 67	.33 211 83 66	.31 223 89 67	.34 208 89 67	.38 237 85 65	.34 229 85 66	.38 221 85 60	.23 215 77 64	.36 211 84 66	.30 212 83 64	.21 225 82 65	.39 207 82 64	.37 196 82 63	.32 247 85 65	.37 227 80 62	.37 189 84 63	.27 162 85 65	.29 200 84 65	.32 214 83 66	.23 226 86 66	.30 205 84 66	9.04 5802 83.9 64.5
HAWAII ISLAND OF OAHU		EVAP WIND MAX MIN	.25 22 86 65	.30 32 90 67	.27 21 96 66	.23 28 93 67	.19 17 85 68	.13 20 86 68	.27 28 94 68	.30 27 92 68	.30 31 90 69	.30 27 92 69	.30 42 89 69	.45 38 90 69	.36 38 92 69	.39 37 93 68	.30 45 89 68	.42 58 90 68	.30 47 89 68	.36 37 89 67	.45 42 92 69	.40 35 93 69	.38 43 92 70	.45 36 93 69	.30 50 94 68	.34 44 93 66	.38 30 91 67	.35 23 91 69	.27 28 91 70	.30 41 90 69	.13 27 83 70	.25 35 92 70	9.42 1029 90.6 68.4

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# EVAPORATION AND WIND

HAWAII AND PACIFIC  
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STATION	DAY OF MONTH																															TOTAL OF AVG.
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
PACIFIC • • • EAST OF 180TH MERIDIAN																																
JOHNSTON IS W50 AP	EVAP	.35	.31	.35	.30	.36	.36	.28	.26	.25	.38	.43	.39	.40	.32	.35	.33	.40	.25	.44	.29	.37	.30	.38	.37	.33	.23	.31	.31	.34	.38	10.12
	WIND	156	140	136	161	162	156	170	127	132	191	193	194	206	209	220	194	248	234	200	204	171	175	223	210	191	230	216	217	227	200	5693
	MAX	87	89	89	89	90	89	89	88	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	MIN	75	76	75	76	77	83	80	78	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
• • • WESTERN PACIFIC ISL. NORTH OF 12 N																																
GUAM W5MO	EVAP	.15	.27	.29	.26	.27	.27	.22	.19	.27	.16	.14	.08	.25	.21	.20	.26	.24	.24	.13	.27	.27	.17	.10	.19	.22	.29	.21	.20	.21	.32	6.55
	WIND	67	112	109	114	126	110	69	61	130	105	110	41	30	89	119	120	100	160	69	86	109	101	135	135	107	75	59	49	86	99	2882
	MAX	89	90	89	87	90	90	89	90	89	86	82	87	90	88	89	91	88	88	83	91	89	84	82	89	90	89	92	89	90	91	88.4
	MIN	71	71	71	71	70	71	71	72	71	70	71	70	71	72	71	72	71	70	70	70	70	70	71	70	70	71	70	70	71	70	70.7

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								TEMP.	PRECIP.	EVAP.	SPECIAL (SEE NOTES)	
HAWAII												
ISLAND OF KAUAI												
ALEXANDER RESV. 983	0140	02	KOLOA	2	21 57	159 32	1610					MCBRYOE SUGAR CO.
ANAHOLA 1114	A 0145	01	KAWAIIHAU	1	22 08	159 18	180					LIHUE PLANTATION CO
BRYOESWOOD STA 985	A 0240	02	KOLOA	2	21 56	159 32	720	7A				MC BRYOE SUG CO LTO
EAST LAWA 934	A 0456	02	KOLOA	2	21 55	159 30	440	7A				MC BRYOE SUG CO LTO
ELEEE 927	A 0470	02	KOLOA	2	21 54	159 35	150	6A				MC BRYOE SUG CO LTO
HALAULA 1110	A 0935	01	KAWAIIHAU	1	22 07	159 19	253	7A				LIHUE PLTN CO LTO
HALENANAO 1006	A 1038	02	LIHUE	2	21 58	159 26	490	8A				LIHUE PLANTATION CO
HANAHANAPUNI 1055.2	1140	02	KAUAI	2	22 03	159 25	600					LIHUE PLANTATION CO LTO
HANAIEI TUNNEL 1053	A 1170	01	KAWAIIHAU	1	22 05	159 28	1218	MO				US GEOLOGICAL SURVEY
HUKIPO 945	2161	03	WAI MEA	3	21 59	159 41	800	8A				KEKAHA SUGAR CO LTO
ILIILILUA INTAKE 1050	A 2222	02	LIHUE	2	22 02	159 28	1050	VAR				LIHUE PLTN CO LTO
INTAKE WAINIHA PC 1086A	2227	01	HANAIEI	1	22 09	159 34	690	WI				MC BRYOE SUG CO LTO
KANALOHULUHULU 1075	3099	03	WAI MEA	3	22 08	159 40	3600	7A	7A			STATE DIVISION OF PARKS
KANEHA RESERVOIR 1092	A 3104	01	KAWAIIHAU	1	22 08	159 23	830	7A				LIHUE PLANTATION
KAPAA STABLES 1104	3159	01	KAWAIIHAU	1	22 05	159 20	175					LIHUE PLTN CO LTO
KEALIA 1112	A 3982	01	KAWAIIHAU	1	22 06	159 19	9	7A				LIHUE PLTN CO LTO
KEKAHA 944	4272	03	WAI MEA	3	21 58	159 43	9	8A				KEKAHA SUGAR CO LTO
KILAUEA 1134	A 4561	01	HANAIEI	1	22 13	159 25	320	7A				NICK RAPOZO
KILAUEA POINT 1133	4568	01	HANAIEI	1	22 14	159 24	180	7A	7A			MRS ELIZABETH MACIOLEK
KOLO 1033	4735	03	WAI MEA	3	22 04	159 46	36	7A				KEKAHA SUGAR CO LTO
KOLOA 936	A 4742	02	KOLOA	2	21 55	159 28	240		8A			MCBRYOE SUGAR CO
KOLOA LN (MAK) 940.1	4748	01	KAUAI	2	21 52	159 27	52	7A	7A			AUSCG LORAN STATION
KOLOA MAUKA 994	A 4750	02	KOLOA	2	21 57	159 29	640		7A			MCBRYOE SUGAR COMPANY
KUKUIULA 935	A 4950	02	KOLOA	2	21 54	159 30	100		6A			MC BRYOE SUG CO LTO
LIHUE VARIETY ST 10621A	5560	02	LIHUE	2	22 01	159 23	380		7A			LIHUE PLANTATION CO LTO
LIHUE 1020	A 5575	02	LIHUE	2	21 59	159 22	207		7A			LIHUE PLTN CO LTO
LIHUE WSO 1020.1 AP	R 5580	02	LIHUE	2	21 59	159 21	103	MIO	MIO	7A	J	NATL WEATHER SERVICE
MAKAWELI 965	A 5864	03	WAI MEA	3	21 55	159 38	140		7A			OLOKELE SUGAR CO
MANA 1026	6082	03	WAI MEA	3	22 02	159 46	20		8A			KEKAHA SUGAR CO LTO
MOHIHI UPR CROSS 1083	A 6433	01	WAI MEA	3	22 07	159 36	3500		MIO			U S GEO SURVEY
MOLOAA 1145	A 6529	01	KAWAIIHAU	1	22 11	159 20	330		7A			THEODORE JAVELLANA JR
MOUNT WAIKALELE 1047	R 6565	03	WAI MEA	2	22 04	159 30	5148		MIO			U. S. GEO. SURVEY
NIU RIGGE 1035	6850	03	WAI MEA	3	22 02	159 44	1250	6A				KEKAHA SUGAR CO LTO
N WAILUA DITCH 1051	A 6888	02	LIHUE	2	22 04	159 28	1110		7A			LIHUE PLTN CO LTO
N WAILUA RIVER 1055	A 6893	02	KI HUE	2	22 04	159 26	650		MO			LIHUE PLTN CO LTO
PH WAINIHA 1115	8155	01	HANAIEI	1	22 12	159 34	101		6A			MC BRYOE SUG CO LTO
PRINCEVILLE RANCH 1117	8165	01	HANAIEI	1	22 13	159 29	295		9A			PRINCEVILLE RANCH INC
PUEHU RIGGE 1040	8205	03	WAI MEA	3	22 01	159 42	1660		8A			KEKAHA SUGAR CO LTO
PUHI 1013	A 8217	02	LIHUE	2	21 58	159 24	329		8A			LIHUE PLANTATION CO
WAHIAWA 930	A 8941	02	KOLOA	2	21 54	159 34	215		7A			MC BRYOE SUG CO LTO
WAIHI LOWER 1054	8958	02	LIHUE	2	22 01	159 27	565	6A	6A			LIHUE PLTN CO LTO
WAIHI UPPER 1052	8966	02	LIHUE	2	22 01	159 28	780		6A			LIHUE PLTN CO LTO
WAIWA 943	9253	03	WAI MEA	3	21 59	159 43	10		8A			KEKAHA SUGAR CO LTO
WAILUA KAI 1065	A 9467	02	LIHUE	2	22 02	159 21	50		7A			LIHUE PLANTATION
WAI MEA 947	9625	03	WAI MEA	3	21 58	159 41	20		8A			KEKAHA SUGAR CO.
WEST LAWA 931	A 9955	02	KOLOA	2	21 54	159 31	210		6A			MC BRYOE SUG CO LTO
ISLAND OF OAHU												
AHIIMANU LOOP 839.12	0055	01	KOOLAUPOKO	1	21 26	157 51	320					DR OON MITCHELL
ALOHA STADIUM-HALAWA	0172	03	OAHU	3	21 23	157 56	40	8A	8A			ALOHA STADIUM
BERETANIA PUMPING STA	0211	02	HONOLULU	2	21 19	157 51	20		9A			BOARD OF WTR SUPPLY
B Y U LAIE 903.1	0240	01	KOOLAUPOKO	1	21 39	157 56	20	12M	12M			B Y U-HAWAII CAMPUS
CAMPBELL INO PK 702.5	0248	02	OAHU	3	21 19	158 07	10		8A			CHEVRON U S A INC
CAMP 84 807	0300	03	EWA	3	21 26	158 04	760					OEL MONTE CORPORATION
COCONUT ISLAND 840.1	0350	01	KOOLAUPOKO	1	21 26	157 47	15		8A			H INST MARINE BIOLOGY
OWSETT HIGHLOS 780.8	0438	02	HONOLULU	2	21 21	157 50	565					J.L. BANNING
EWA PLANTATION 741	0507	03	EWA	3	21 21	158 02	5		7A			OAHU SUGAR COMPANY
HALAWA SHAFT 771.2	0964	02	HONOLULU	2	21 23	157 54	170					BOARD OF WATER SUPPLY
HAWAII KAI CRSE 724.19	1308	02	OAHU	2	21 18	157 39	21					HAWAII KAI GOLF COURSE
HELEMANO INTAKE 881	1384	05	WAILUA	5	21 33	158 00	1274					WAILUA SUGAR CO INC
HOKULOA 725.2	A 1540	03	EWA	3	21 24	158 06	2260					WILLIAM M KIRKPATRICK
HONOLULU OBSERV 702.2	1918	03	EWA	3	21 19	158 00	5	9A	9A	9A	J	NATIONAL WEATHER SERV
HONOLULU WSO 703 AP	1919	02	HONOLULU	2	21 20	157 55	7	MIO	MIO			NATL WEATHER SERVICE
KAENA POINT 841.3	2410	04	WAILUA	4	21 34	158 15	1240		9A			U S AIR FORCE
KAHANA 883	A 2462	01	KOOLAUPOKO	1	21 31	157 54	800		WI			WAIHOLE WTR CO LTO
KAHUKU 912	A 2570	01	KOOLAUPOKO	1	21 42	157 59	15					KIULIMA HOTEL

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								TEMP.	PRECIP.	EVAP.	SPECIAL (SEE NOTES)		
ISLAND OF OAHU													
KAILUA FIRE STA 791.3	2683	01	KOOLAUPOKO	1	21 24	157 45	10						KAILUA FIRE STATION
KALIHI RES SITE 777	R 2960	02	HONOLULU	2	21 23	157 50	910		MIO				BOARD OF WTR SUPPLY
KANEOME MAUKA 781	3113	01	KOOLAUPOKO	1	21 25	157 49	325	7A	7A				STATE HOSPITAL
KAPALAMA 773	A 3268	02	HONOLULU	2	21 21	157 52	614		8A				KAMEHAMEHA SCHOOLS
KAWAIHAPAI 841	A 3734	05	WAIALUA	5	21 35	158 11	40		7A				WAIALUA SUGAR CO. INC.
KEMOO CAMP 8 855	A 4318	05	WAIALUA	5	21 33	158 05	725		7A				WAIALUA SUGAR CO. INC.
KOOLAU DAM 833	A 4766	05	WAIHAWA	5	21 30	157 58	1160		8A				US ARMY SCHOFIELD ARKS
LULUKU 781.7	5655	01	KOOLAUPOKO	1	21 24	157 49	240					C	NATIONAL WEATHER SERV
MAKAHA PUMP 800.2	5782	04	OAHU	4	21 29	158 12	400					C	CAPITAL INVESTMENT CO
MAKAKILO 730.1	5789	03	OAHU	3	21 21	158 06	300		6A				NEAL AORMS
MANOA 712.1	6122	02	HONOLULU	2	21 19	157 49	220		7A				CHARLES COOKE
MANOA LYON ARBORETUM	6128	02	OAHU	2	21 20	157 48	500	8A	8A				LYON ARBORETUM
MANOA TUNNEL 2 716	R 6130	02	HONOLULU	2	21 20	157 48	650		MIO				BOARD OF WTR SUPPLY
MAUNAWILI 787.1	6222	01	KOOLAUPOKO	1	21 21	157 46	395					C	EXP STN H S P A
MOANALUA 770	6395	02	HONOLULU	2	21 21	157 54	20		9A				JOHN A ROXBURGH
MOUNT KAALA 844	6553	04	WAIANAE	4	21 31	158 09	4025					C	FAA
NUUANU RES 4 783	6928	02	HONOLULU	2	21 21	157 49	1048		MIO				BOARD OF WTR SUPPLY
NUUANU RESERV 5 775	A 6933	02	HONOLULU	2	21 21	157 50	410		WI				BOARD OF WTR SUPPLY
OPAEULA 870	A 7150	05	WAIALUA	5	21 34	158 02	1060	7A				C	WAIALUA SUGAR CO. INC.
PAIKO DR 723.4	7540	02	HONOLULU	2	21 17	157 44	10		6P				O L GRUBB
PALI GOLF COURSE 788.1	7656	01	OAHU	1	21 23	157 47	480		10A				CC DEPT PKS RECREATION
PALOLO VALLEY 718	R 7664	02	HONOLULU	2	21 20	157 46	995		MIO				BOARD OF WTR SUPPLY
PAUOA FLATS 784	R 7810	02	HONOLULU	2	21 21	157 48	1640		MIO				BOARD OF WTR SUPPLY
PEARL COUNTRY CL 760.2	7942	03	OAHU	3	21 23	157 56	120					C	PEARL COUNTRY CL8 OF HA
PUNALUU PUMP 905.2	8314	01	KOOLAUPOKO	1	21 35	157 54	20					C	NATL WEATHER SERVICE
PUNCHBOWL CRATER 709	A 8316	02	HONOLULU	2	21 19	157 51	360		8A				NAT MEM CEMETERY
PUPUKA HEIGHTS 896.4	8342	01	WAIALUA	1	21 39	158 02	900					C	JACK N. WHEELER
PUU MANAWAHUA 725.6	8500	03	OAHU	3	21 23	158 06	1690		8A				HUGH HAMILTON
TANTALUS 2 780.5	8738	02	HONOLULU	2	21 20	157 50	1325		7A				R. E. WHITE
UNIV OF HAWAII 713	A 8815	02	HONOLULU	2	21 18	157 49	79		8A				UNIVERSITY OF HAWAII
WAIHAWA DAM 863	8945	05	WAIHAWA	5	21 30	158 03	854					C	WAIALUA SUGAR CO INC
WAIHOLE 837	A 8964	01	KOOLAUPOKO	1	21 28	157 53	745		8A			C	WAIHOLE WTR CO LTO
WAIALAE KAHALA 715	9185	02	HONOLULU	2	21 17	157 47	40		7A				SPENCER TINKER
WAIALEE 896.3	9190	01	KOOLAUPOKO	1	21 41	158 02	33	8A	8A				WAIALEE LIVESK RES FARM
WAIALUA 847	A 9195	05	WAIALUA	5	21 35	158 07	32	7A	7A			C	WAIALUA SUGAR CO. INC.
WAIANAE 798.2	A 9231	04	WAIANAE	4	21 27	158 11	10		7A				BEN MAYES
WAIHAWA 836	A 9261	03	EWA	3	21 28	157 56	800		MO				WAIHOLE WTR CO LTO
WAIKANE 885	A 9340	01	KOOLAUPOKO	1	21 30	157 53	760		WI				WAIHOLE WTR CO LTO
WAIKIKI 717.2	9397	02	HONOLULU	2	21 16	157 49	10	8A	8A				HONOLULU ZOO
WAILUPE VLY SCH 723.6	9500	02	HONOLULU	2	21 18	157 45	180					C	WAILUPE VALLEY SCHOOL
WAIMANALO EXP FM 795.1	9523	01	KOOLAUPOKO	1	21 20	157 43	60		7A				U H WAIMANALO EXP FARM
WAIMANALO NONOKI 795.2	9534	01	OAHU	1	21 20	157 43	120					C	WAIMANALO EXP FARM
WAIKANE 892	9593	05	WAIALUA	5	21 38	158 04	330					C	WAIALUA SUGAR CO INC
WAIKANE 750	A 9738	03	EWA	3	21 23	158 01	59		8A				WAIHOLE WATER COMPANY
WILHELMINA RISE 721	R 9980	02	HONOLULU	2	21 18	157 47	1100		MIO				BOARD OF WTR SUPPLY
ISLAND OF MOLOKAI													
KALAUPAPA 563	A 2896	01	MOLOKAI	1	21 12	156 59	30		8A				KALAUPAPA SETTLEMENT
KAUNAKAKAI 536	3541	01	MOLOKAI	1	21 06	157 01	12		7A				MOLOKAI RANCH LTO
KAUNAKAKAI MAUKA 536.5	3547	01	MOLOKAI	1	21 06	157 01	70					C	MOLOKAI GENERAL HOSP.
KEONELELE PENS 551	A 4394	01	MOLOKAI	1	21 12	157 12	560		VAR				MOLOKAI RANCH. LTO.
KUALAPUU 534	A 4778	01	MOLOKAI	1	21 09	157 02	825					C	OEL MONTE CORPORATION
MAUNALO 511	A 6190	01	MOLOKAI	1	21 08	157 13	1070					C	MOLOKAI RANCH COMPANY
MOLOKAI AP 524	6534	01	MOLOKAI	1	21 09	157 06	450	8A	8A				ALOHA AIRLINES
PUU O HOKU RANCH 542.1	8549	01	MOLOKAI	1	21 09	156 44	700					C	CHARLIE APIA (FOREMAN)
WAIKOLU 540	A 9404	01	MOLOKAI	1	21 08	156 55	3550		WI				MOLOKAI RANCH LTO
ISLAND OF LANAI													
KANEPUU 690	A 3130	01	LAHAINA	1	20 52	157 00	1650		WI				U S O A
KAUNALAPUU HARBOUR 658	3461	01	LAHAINA	1	20 47	157 00	30		8A				OOLE COMPANY
LANAI AIRPORT 656	5275	01	LAHAINA	1	20 48	156 57	1300	8A	8A				HAWAIIAN AIR
LANAI CITY 672	A 5286	01	LAHAINA	1	20 50	156 55	1620	7A	7A			C	OOLE COMPANY
LANAIHALE 684	A 5301	01	LAHAINA	1	20 49	156 53	3370		WI				U S O A
MAHANA 694	A 5704	01	LAHAINA	1	20 52	156 55	1430		MO				U S O A
MALAEUA 676	A 6012	01	LAHAINA	1	20 46	156 55	1150		WI				KOELE COMPANY
WAIKAEKUA 685	A 9021	01	LAHAINA	1	20 47	156 52	2000		WM				KOELE COMPANY

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								TEMP.	PRECIP.	EVAP.	SPECIAL (SEE NOTES)	
ISLAND OF MAUI												
AUWAHI 252	A 0175	02	HANA	2	20 37	156 20	2060		VAR			ULUPALAKUA RANCH
FIELO 46 474	0541	04	LAHAINA	4	20 59	156 38	1050				C	MAUI LANO-PINEAPPLE CO
HAELAAU 477	A 0790	04	LAHAINA	4	20 57	156 36	2980		MO			MAUI LANO-PINEAPPLE CO
HALEAKALA 8 E S 434	A 0995	01	MAKAWAO	1	20 51	156 18	2100		7A			U OF H AGRIC EXP STA
HALEAKALA RANCH 432	A 0999	01	MAKAWAO	1	20 50	156 19	1850		8A			HALEAKALA RANCH CO
HALEAKALA RS 338	1004	02	MAKAWAO	2	20 46	156 15	7030	8A	8A			HALEAKALA NAT PARK
HALIIMAILE 423	A 1075	01	MAKAWAO	1	20 52	156 21	1070		3A			MAUI LANO-PINEAPPLE CO
HAMAKUPOKO 485	1086	01	MAKAWAO	1	20 55	156 21	320		5A			HAWAIIAN COM & SUG CO
HANA 354	1122	01	HANA	1	20 45	155 59	120				C	HARRY HASEGAWA
HANA AIRPORT 355	1125	01	HANA	1	20 48	156 01	61	8A	8A			ROYAL HAWAIIAN AIRLINES
HOLUA CABIN 259.5	A 1552	02	MAKAWAO	2	20 45	156 13	6930		MO			HALEAKALA NATL PARK RGS
HONOKOHU 480	A 1882	04	LAHAINA	4	20 58	156 36	870		MO			MAUI LANO-PINEAPPLE CO
HONOKOHU 493	A 1887	04	LAHAINA	4	21 00	156 39	135		6A			MAUI LANO-PINEAPPLE CO
HONOLUA FIELO 49 494	A 1914	04	LAHAINA	4	21 01	156 38	125		MO			MAUI LANO-PINEAPPLE CO
HONOMANU GULCH 341	A 1935	01	MAKAWAO	1	20 47	156 14	6280		MO			HALEAKALA RANCH CO
KAAHAPALI AP 453.1	2307	04	LAHAINA	4	20 56	156 42	8	8A	8A			AMFAC PROPERTIES INC
KAHAKULO MAUKA 482.3	2453	03	WAILUKU	4	20 59	156 33	650				C	EDWARD CHANG
KAHOMA INTAKE 374	A 2552	04	LAHAINA	4	20 54	156 38	2000		WI			PIONEER MILL CO LTO
KAHULUI WSO 398 AP	R 2572	03	WAILUKU	3	20 54	156 26	48	M10	M10		C J	NATL WEATHER SERVICE
KAILIILI 436	A 2630	01	MAKAWAO	1	20 51	156 16	2520		MO			E MAUI IRR CO LTO
KAILUA 446	2679	01	MAKAWAO	1	20 54	156 13	700	7A	7A			E MAUI IRR CO LTO
KAUOLA INTAKE 375	A 3433	04	LAHAINA	4	20 53	156 38	1585		WI			PIONEER MILL CO LTO
KAUPO RANCH HOUSE 259	3576	02	HANA	2	20 39	156 08	1020				C	KAUPO RANCH
KEAHUA 410	3910	03	MAKAWAO	3	20 52	156 23	480		5A			HAWAIIAN COM & SUG CO
KEARAE 346	A 4091	01	HANA	1	20 50	156 10	980		MO			E MAUI IRR CO LTO
KEAWAKAPU BEACH 260.2	4193	02	MAKAWAO	2	20 42	156 27	20	8A	8A		C	ALLEN L CORELL
KIHEI 311	4489	03	WAILUKU	3	20 47	156 27	90		7A			HAWAIIAN COM & SUG CO
KIPAHULU 258	4634	01	HANA	1	20 39	156 04	260		7A			HANA RANCH-KIPAHULU SEC
KUKUI 380	A 4887	04	LAHAINA	4	20 54	156 35	5788		MO			MAUI LANO-PINEAPPLE CO
KULA SANATORIUM 267	5006	02	MAKAWAO	2	20 42	156 22	3004	7A	7A			KULA SANATORIUM
LAHAINA 361	5177	04	LAHAINA	4	20 53	156 41	45	7A	7A		C	PIONEER MILL CO LTO
LAUNIUPOKO INTAKE 376	A 5404	04	LAHAINA	4	20 51	156 37	1280		WI			PIONEER MILL CO LTO
LAUNIUPOKO VILLAGE 372A	5408	04	LAHAINA	4	20 51	156 39	220		7A			PIONEER MILL CO LTO
LUPI UPPER 442	A 5665	01	MAKAWAO	1	20 53	156 15	1240		MO			E MAUI IRR CO LTO
MAHINAHINA 466	A 5715	04	LAHAINA	4	20 57	156 40	715		7A			PIONEER MILL CO LTO
MOKUPEA 475	A 6521	04	LAHAINA	4	20 59	156 37	1290		MO			MAUI LANO-PINEAPPLE CO
NAKALELE FIELO 60 497	A 6645	04	LAHAINA	4	21 02	156 36	340		VAR			MAUI LANO-PINEAPPLE CO
OLINOA 332	A 7040	01	MAKAWAO	1	20 48	156 17	4127		VAR			EAST MAUI IRRIGATION CO
OLOWALU 296.1	7059	04	LAHAINA	4	20 49	156 37	20		7A			PIONEER MILL CO LTO
PAAKEA 350	7194	01	HANA	1	20 49	156 07	1260		VAR		C	E MAUI IRR CO LTO
PAIA 406	7566	01	WAILUKU	1	20 55	156 23	170		6A			HAWAIIAN COM & SUG CO
PANILEIHULU 259.2	A 7674	02	HANA	2	20 41	156 08	3570		MO			KAUPO RANCH CO.
PEAHI 488.6	7952	01	MAUI	1	20 54	156 17	830				C	BERNARD RUPLINGER
POHAKA BRIDGE 307.2	A 8060	03	WAILUKU	3	20 49	156 31	167		6A			WAILUKU SUGAR CO
POLIPOLI SPRINGS 267.2A	8070	02	MAKAWAO	2	20 41	156 20	6150		VAR			STATE DIV OF FORESTRY
PUOHOKAMOA 2 343	A 8336	01	HANA	1	20 50	156 13	2980		MO			E MAUI IRR CO LTO
PUUNENE 396	8543	03	WAILUKU	3	20 53	156 27	60		7A			HAWAIIAN COM & SUG CO
PUU PAKI 352	A 8553	01	HANA	1	20 46	156 03	2160				5	EAST MAUI IRRIGATION CO
SPRECKELSVILLE 400.2	8688	03	WAILUKU	3	20 54	156 25	85		8A			HAWAIIAN COM & SUG CO
TWIN GATES 261.3	A 8742	03	MAKAWAO	3	20 46	156 23	1310		VAR			KAONOULU RANCH
UH AGRI RES CNTR 324.5	8743	02	MAUI	2	20 46	156 20	3050				C	UH MAUI AGRI RESCH CNTR
UKULELE 333	A 8744	01	MAKAWAO	1	20 48	156 15	5230		MO			HALEAKALA RANCH CO
UKUMEHAME 301	A 8750	04	LAHAINA	4	20 48	156 35	75		7A			PIONEER MILL CO LTO
ULUPALAKUA RANCH 250	8760	02	MAKAWAO	2	20 39	156 24	1900		8A		C	ULUPALAKUA RCH CO LTO
WAIKULI 364	A 8955	04	LAHAINA	4	20 54	156 40	580		8A			PIONEER MILL CO LTO
WAIHEU CAMP 484	A 9275	03	WAILUKU	3	20 55	156 31	320		6A			WAILUKU SUGAR CO
WAIHEE VALLEY 482	A 9315	04	WAILUKU	4	20 57	156 32	300		6A			WAILUKU SUGAR CO
WAIKAMOI 449	A 9332	01	HANA	1	20 52	156 12	1200		MO			E MAUI IRR CO LTO
WAIKAMOI OAM 336	9335	01	MAKAWAO	1	20 49	156 14	4320				C	EAST MAUI IRRIGATION CO
WAIKAPU 390	A 9376	03	WAILUKU	3	20 51	156 31	370		6A			WAILUKU SUGAR CO
WAILUA IKI 348	A 9460	01	HANA	1	20 48	156 09	2630				5	EAST MAUI IRRIGATION CO
WAILUKU 386	A 9484	03	WAILUKU	3	20 54	156 30	180		7A			WAILUKU SUGAR COMPANY
WAIOPAI RANCH 256	A 9765	02	HANA	2	20 38	156 12	220		OC			HALEAKALA RANCH CO
ISLAND OF HAWAII												
AHUA UMI 75	A 0040	05	N KONA	5	19 38	155 47	5220		MO			W.H. GREENWELL RANCH
CITY OF REFUGE 27.4	0344	04	S KONA	4	19 25	155 55	15		9A			NAT HISTORICAL PARK

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								TEMP.	PRECIP.	EVAP.	SPECIAL (SEE NOTES)	
ISLAND OF HAWAII												
HAINA 214	0840	01	HAMAKUA	1	20 06	155 28	461		8A			HONOKAA SUGAR CO
HAKALAU 142	0905	02	S HILO	2	19 54	155 08	105		7A			MAUNA KEA SUGAR CO
HALEMAUMAU 52	A 1033	03	KAU	3	19 24	155 17	3648		MO			HAWAII NAT PARK
HALEPOHAKU 111	A 1065	02	HAMAKUA	2	19 46	155 28	9220		3P			MAUNA KEA OBSERVATORY
HAWAII VOLCNS NP HO 54	1303	02	KAU	2	19 26	155 16	3971	8A	8A		C	HA VOLCANOES NAT PK HQS
HAWI 168	A 1339	01	N KOHALA	1	20 14	155 50	580		6A		C	K L BONO
HILO COUNTRY CLUB 86.6	1487	02	HAWAII	2	19 41	155 10	1600				C	REX WILLS II
HILO WSO AP 87	R 1492	02	S HILO	2	19 43	155 04	36	M10	M10		C	NATL WEATHER SERVICE
HOLUALOA 70	A 1557	04	N KONA	4	19 38	155 55	3220		MO			STATE DIV OF FORESTRY
HOLUALOA BEACH 68	A 1562	04	N KONA	4	19 37	155 59	14		7A			CAPT COOK CATTLE CO
HONAUNAU 27	1665	04	S KONA	4	19 27	155 53	1089		7A			SHIGETO L TANAKA
HONOHINA 137	1701	02	N HILO	2	19 56	155 09	300		7A			MAUNA KEA SUGAR CO INC
HONOMU MAUKA 138	1960	02	S HILO	2	19 51	155 09	1100				C	MAUNA KEA SUGAR CO
HONUAULA 71	A 2047	04	N KONA	4	19 40	155 53	6250		MO			STATE DIV OF FORESTRY
HUALALAI 72	A 2151	04	N KONA	4	19 42	155 52	8190		MO			STATE DIV OF FORESTRY
HUEHUE 92.1	A 2156	04	N KONA	4	19 45	155 59	1960		6A			HUEHUE RANCH
KAAALA IKI 12	A 2249	03	KAU	3	19 08	155 34	1340		WI			KAU SUGAR COMPANY, INC
KAAWALOA 29	A 2327	04	SOUTH KONA	4	19 30	155 55	1340		8A			CAPT COOK INVESTMENT CO
KAHIAWAI MAUKA 3.8	2512	03	KAU	3	19 08	155 46	4120				C	RUSSELL P. SMITH
KAHUA RCH HOTRS 176.3	2600	01	HAWAII	1	20 08	155 48	3240				C	KAHUA RANCH COMPANY
KAINALIU 73.2	2751	04	N KONA	4	19 32	155 56	1500	7A	7A			KONA EXPERIMENT STA
KALAOA 69.22	2887	04	HAWAII	4	19 44	155 59	2000		8A			FLOYD W MC COY
KALAPANA 1 67.8	2894	02	S HILO	2	19 20	155 02	10		VAR			HAWAII VOLCANOES NAT PK
KAMAHA 2 5	A 3048	03	KAU	3	19 02	155 40	1375		WI			PARKER RCH-KAPAPALA DIV
KAMUELA 192.2	3077	01	S KOHALA	1	20 01	155 40	2670	6A	6A			PARKER RANCH
KAPAPALA RANCH 36	A 3300	03	KAU	3	19 17	155 27	2140		6A			GORDON CRAN
KAPOHO BEACH 93.11	3368	02	HAWAII	1	19 30	154 49	10	8A	8A			H E MC NICHOLS
KAPOHO LANDING 93.5	A 3369	02	PUNA	2	19 30	154 52	290		VAR			DEPT OF PUBLIC WORKS
KAWAINUI LOWER 193	A 3770	01	HAMAKUA	1	20 05	155 39	1080		WI			HONOKAA SUGAR CO
KEAAU 92	3872	02	PUNA	2	19 38	155 02	285		8A			PUNA SUGAR CO
KEAIIWA CAMP 22.1	3925	03	KAU	3	19 14	155 29	1700				C	KAU SUGAR COMPANY, INC
KEALAKEKUA 3 29.11	3985	04	S KONA	4	19 31	155 55	1530				C	W H GREENWELL RANCH
KEANAKOLU CAMP 124.2	4098	02	HAMAKUA	2	19 55	155 21	5280				C	STATE DIV OF FORESTRY
KIOLAKAA A & F 6	A 4625	03	KAU	3	19 04	155 38	1925		MO			STATE DIV OF FORESTRY
KIPA 89.2	A 4632	02	S HILO	2	19 44	155 09	1490		WI			MAUNA KEA SUGAR CO.
KOHALA MISSION 175.1	4680	01	N KOHALA	1	20 14	155 48	537		7A			K LYMAN BONO
KOIAWE LOWER 196	A 4685	01	HAMAKUA	1	20 05	155 38	720		WI			HONOKAA SUGAR CO
KONA (KAILUA) 68.3	A 4764	04	N KONA	4	19 39	156 00	30	8A	8A		C	CHEVRON USA
KONA VILLAGE 93.8	4765	04	N KONA	4	19 50	155 59	20		8A			KONA VILLAGE RESORT HTL
KUKAIIAU 222	4815	01	HAMAKUA	1	20 02	155 21	840		6A			LAUPAHOEHOE SUGAR CO
KUKUIHAELE HIC 199	4928	01	HAMAKUA	1	20 07	155 35	980		6A			HONOKAA SUGAR CO
KUKUIHAELE MILL 206	A 4938	01	HAMAKUA	1	20 08	155 34	300		6A			HONOKAA SUGAR CO
KULANI CAMP 79	5011	02	S HILO	2	19 33	155 18	5170	8A	8A			ST DEPT OF SOCIAL SER
KULANI MAUKA 76	A 5018	05	N HILO	5	19 35	155 27	8300		WI			MAUNA LOA OBSERVATORY
KULANI SCHOOL SITE 78	A 5021	02	S HILO	2	19 35	155 20	5735		WI			ST DEPT OF SOCIAL SER
LALAMILO FLO OFF 191.1	5260	01	S KOHALA	1	20 01	155 41	2615				C	STATE DEPT OF L&N RES
LANIHAU 68.2	5330	04	N KONA	4	19 40	155 58	1530		7A			KONA EXPERIMENT STATION
LAVA TREE PARK 66.1	5460	02	PUNA	2	19 29	154 54	650				C	STATE DIV OF PARKS
MAKAHALAU 103	5761	02	HAWAII	1	19 59	155 33	3820		6A			PARKER RANCH
MANUKA 2	A 6134	03	KAU	3	19 07	155 50	1760		WI			STATE DIVISION OF PARKS
MAUNA KEA OBS 111.2	6183	02	HAWAII	2	19 49	155 28	13770		7P			MAUNA KEA OBSERVATORY
MAUNA LOA SLOPE OBS	6198	05	HAMAKUA	5	19 32	155 35	11150	M10	M10			MAUNA LOA OBSERVATORY
MIDDLE HOLUALOA 68.1	A 6268	04	N KONA	4	19 37	155 58	500		7A			CAPT COOK CATTLE CO
MIDDLE PEN 147.1	A 6270	01	N KOHALA	1	20 06	155 50	1380		VAR			KAHUA RANCH
MOAULA 18	A 6407	03	KAU	3	19 11	155 30	600		WI			PARKER RCH-KAPAPALA DIV
MOUNTAIN VIEW 91	6552	02	PUNA	2	19 33	155 07	1530	6A	6A			PUNA SUGAR CO
NAALEHU 14	A 6588	03	KAU	3	19 04	155 35	800	8A	8A			KAU SUGAR COMPANY
NAPOOPOO 28	A 6697	04	S KONA	4	19 28	155 55	350		7A			U H KONA EXP STATION
OOKALA 223	7131	02	N HILO	2	20 01	155 17	430	7A	7A			LAUPAHOEHOE SUGAR CO
OPIHIHALE 2 24.1	7166	04	S KONA	4	19 16	155 53	1270	7A	7A			MRS LORMA TRUMAN
ORCHIO LANO EST 91.5	A 7185	02	PUNA	2	19 34	155 00	445		VAR			BOARD OF WATER SUPPLY
PARAHU 217	7204	01	HAMAKUA	1	20 05	155 26	415		8A		C	HONOKAA SUGAR COMPANY
PARUULO 221	7312	01	HAMAKUA	1	20 03	155 22	800		7A			LAUPAHOEHOE SUGAR CO
PAHALA 21	A 7421	03	KAU	3	19 12	155 29	870		6A			KAU SUGAR CO INC
PAHOA 65	7457	02	PUNA	2	19 30	154 57	670		6A			PUNA SUGAR COMPANY
PAPAIKOU 144.1	7711	02	S HILO	2	19 47	155 06	260		7A			MAUNA KEA SUGAR CO
PAPAIKOU MAUKA 140.1	7721	02	S HILO	2	19 47	155 08	1270		7A			MAUNA KEA SUGAR CO

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STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES				OBSERVER
								TEMP.	PRECIP.	EVAP.	SPECIAL (SEE NOTES)	
ISLAND OF HAWAII												
PIIHONUA 89	A 8051	02	5 HILO	2	19 44	155 10	1730		MO			STATE DIV OF FORESTRY STATE DIV OF PARKS SUPT PUU HEIAU-NHS W.H. GREENWELL RANCH PUU WAAWAA RANCH CO MRS CAROLYN CARLSON PARKER RCH-KAPAPALA DIV U S COAST GUARD SHINICHI KANESHIRO BOISE CASCADES WA CONST
POHAKULOA 107	A 8063	02	HAMAKUA	2	19 45	155 32	6511					
PUUKOHOLA HEIAU 98.1	8422	05	HAWAII	5	20 02	155 50	140	8A	8A			
PUU LEHUA 73	A 8460	04	N KONA	4	19 34	155 49	4880		MO			
PUU WAAWAA 94.1	8555	05	N KONA	5	19 47	155 51	2520					
SOUTH KONA 2.31	8650	03	HAWAII	3	19 06	155 45	2650	8A	8A			
SOUTH POINT CORRAL 3	A 8675	03	KAU	3	18 57	155 41	500		WI			
UPOLU POINT USCG 159.2	8830	01	N KOHALA	1	20 15	155 53	61	8A	2P			
WAIKAE 5CD 88.2	9025	02	5 HILO	2	19 40	155 08	1050		7A			
WAIKALOA-8015 CAS 95.8	9142	04	HAWAII	5	19 56	155 48	900		8A			

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								TEMP.	PRECIP.	EVAP.	SPECIAL (SEE NOTES)	
PACIFIC												
EAST OF 180TH MERIDIAN												
ATU'U	4060	03	TUTUILA		14 16S	170 41W	265		4P			MARIST BROTHERS
CANTON ISLAND	4101	02	PHOENIX IS		2 46N	171 43W	8	9A	9A			ITT/FEDERAL ELEC CORP
FALEASAO VILLAGE	4248	03	TA'U'MAN		14 14S	169 31W	16		8A			SOLOMULI MALU'IA
JOHNSTON IS WSO AP	R 4320	01	LINE ISLANDS		16 44N	169 31W	10	M10	M10	SP	J	NATL WEATHER SERVICE
LEONE	4397	03	TUTUILA		14 21S	170 47W	20	6P	6P			ST THERESA SCHOOL
FRENCH FRIGATE SHOALS	4401	07			23 52N	166 17W	6	8P	8A			U S COAST GUARD
MIDWAY SAND ISLAND	4490	07			28 13N	177 21W	10	M10	M10			U S NAVY
PAGO PAGO WSO AP	R 4690	03	AMER SAMOA		14 20S	170 43W	12	M10	M10		J	NATL WEATHER SERVICE
WESTERN PACIFIC ISL. NORTH OF 12 N												
ANDERSEN AFB GUAM	\$3 4025	03	MARIANNA IS		13 35N	144 55E	624	M10	M10			AIR WEATHER SERVICE
CLARK AFB LUZON	\$3 4100	06	PHILIPPINE I		15 11N	120 33E	475	M10	M10			U S AIR FORCE
GUAM NAS	4226	03	MARIANNA IS		13 29N	144 48E	254	M10	M10			U S NAVY
GUAM WSMO	R 4229	03	MARIANNA IS		13 33N	144 50E	361	10A	10A	6P	J	NATL WEATHER SERVICE
MANGILAO	4468	03	MARIANNA IS		13 27N	144 49E	60		7A			GUAM AGRICULTURAL STA
ROTA	4800	03	MARIANNA IS		14 08N	145 09E	47		8A			OIST ADMINISTRATOR
SAIPAN LORAN	4860	03	MARIANNA IS		15 08N	145 42E	9	10A	10A			U S C G LORAN STATION
WAKE ISLAND WSO AP	R 4901	01	WAKE ISLAND		19 17N	166 39E	12	M10	M10		J	NATL WEATHER SERVICE
CAROLINE AND MARSHALL ISLANDS												
ANGUAR	4030	02	CAROLINE IS		6 55N	134 09E	15		8A			USCG LORAN STATION
ENEWETAK	4165	01	MARSHALL IS		11 21N	162 21E	10	6P	6P			M10-PACIFIC MARINE LAB
FALALOP I ULITHI ATOLL	4185	02	CAROLINE IS		10 02N	139 48E	6	M10	M10			RAPHAEL B LINGESOH
KAPINGAMARANGI ATOLL	4325	01	PONAPE		1 05N	154 48E	10	M10	M10			ERSIN HAQUET
KOROR WSO	R 4351	02	CAROLINE IS		7 20N	134 29E	94	M10	M10		J	NATL WEATHER SERVICE
KWAJALEIN MISSILE CGN R	4375	01	MARSHALL IS		8 44N	167 44E	7	12M	12M		J	KMR WEATHER SERVICE
LELE I KOSRAE	4395	02	KOSRAE		5 20N	163 02E	7	M10	M10			JULIAN E ROBERT
MAJURO WSO AP	R 4460	02	MARSHALL IS		7 05N	171 23E	10	M10	M10		J	NATL WEATHER SERVICE
METANIM	4482	02	PONAPE		6 51N	158 19E	30	6P	6P			REV E. A. SOUCIE
MOKIL ATOLL	4490	02	PONAPE IS		6 41N	159 47E	27		5P			ESHIAM BEN
NGASANG, BABELTHUAP	4580	01	PALAU ISLAND		7 38N	134 39E	10		8A			BETHANIA SEMINARY
PONAPE WSO	R 4751	02	CAROLINE IS		6 58N	158 13E	123	M10	M10		J	NATL WEATHER SERVICE
SATAWAN ATOLL	4814	02	CAROLINE IS		5 20N	153 44E	9	M10	M10			ANTER EKO
TRUK, MOEN I. WSO AP	R 4851	02	CAROLINE IS		7 28N	151 51E	5	M10	M10		J	NATL WEATHER SERVICE
WOLEAI ATOLL	4911	01	CAROLINE IS		7 23N	143 55E	7	M10	M10			HASUGULIMAR/HALEYEMAI
YAP WSO AP	R 4951	02	CAROLINE IS		9 29N	138 05E	44	M10	M10		J	NATL WEATHER SERVICE

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# LATE REPORTS

## MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

HAWAII AND PACIFIC

Station	Temperature										Precipitation												
	Average Maximum	Average Minimum	Average	Departure From Normal	Highest	Date	Lowest	Date	Degree Days	No. of Days				Departure From Normal	Greatest Day	Date	Snow, Sleet			No. of Days			
										Max.	Min.	Total	Total				Date	Total	Max. Depth on Ground	Date	.10 or More	.50 or More	1.00 or More
PACIFIC																							
* * * FEBRUARY 1977																							
MIDWAY SAND ISLAND	69.2	58.1	63.7	- 1.8	76	16+	50	14		0	0	0	0	1.97	- 1.75	.54	27	.0	0		7	1	0
* * * JUNE 1977																							
LELE I KOSRAE	89.1M	74.7M	81.9M	.9	91	28+	68	16		13	0	0	0			1.43	28	.0	0		6	1	
* * * JULY 1977																							
LELE I KOSRAE	89.7M	76.4M	83.1M	2.2	92	28+	70	3		0	0	0	0			2.25	25	.0	0				
* * * SEPTEMBER 1977																							
LELE I KOSRAE	89.8M	75.2M	82.5M	1.2	93	26	72	8		0	0	0	0			4.32	8	.0	0		5	2	
* * * OCTOBER 1977																							
WOLF AI ATOLL	88.4M	75.8M	82.1M		90	31+	72	16+		0	0	0	0			2.90	15	.0	0		7	7	
* * * NOVEMBER 1977																							
FALALOP I ULITHI ATOLL	88.3M	77.8M	83.1M		90	12	76	19+		1	0	0	0			.30	25	.0	0		0	0	
GUAM NAS	84.8	77.1	81.0	.0	88	2	75	15		0	0	0	0	9.13	.41	3.25	8	.0	0		13	5	2
KAPINGAMARANGI ATOLL	87.1M	73.7M	80.4M		90	18+	70	28+		2	0	0	0			4.67	17	.0	0		16	9	4
WOLF AI ATOLL	88.8M	74.8M	81.8M		91	30+	70	25+		13	0	0	0			1.72	27	.0	0		11	3	2
* * * DECEMBER 1977																							
FALALOP I ULITHI ATOLL	88.3	77.6	83.0		90	23+	76	31+		3	0	0	0	5.39	- 4.42	1.37	31	.0	0		15	2	2
GUAM NAS	83.9	76.5	80.2	.0	86	17	74	26+		0	0	0	0	2.19	- 2.88	.57	1	.0	0		6	2	0
KAPINGAMARANGI ATOLL	89.3M	77.5M	83.4M		95	30+	70	28		7	0	0	0			.91	14	.0	0		3	0	
LELE I KOSRAE	90.8M	74.1M	82.5M	.9	93	11	69	19+		0	0	0	0			5.82	16	.0	0		1		
WOLF AI ATOLL	89.1	76.0	82.6		91	18	72	25		16	0	0	0	5.19		1.10	1	.0	0		12	3	1
* * * JANUARY 1978																							
ATU I														36.46		3.58	23	.0	0		25	20	12
FALALOP I ULITHI ATOLL	87.0M	74.8M	80.9M		90	12+	69	22		5	0	0	0					.0	0		0	0	
GUAM NAS	82.8	74.2	78.5	- .9	85	24+	72	21+		0	0	0	0	.99	- 3.57	.27	24	.0	0		3	0	0
MIDWAY SAND ISLAND	69.2	60.0	64.5	- 1.1	74	4	54	16		0	0	0	0	4.44	- .23	.94	12+	.0	0		9	3	0
WOLF AI ATOLL	88.6M	75.3M	82.0M		91	1	71	19+		7	0	0	0			1.10	18+	.0	0		4	2	
* * * FEBRUARY 1978																							
FALALOP I ULITHI ATOLL	M	M	M								0	0	0	0		1.20	28	.0	0			1	
GUAM NAS	81.8	72.1	77.0	- 2.4	84	25+	68	20		0	0	0	0	2.15	- .57	.75	3	.0	0		6	1	0
LELE I KOSRAE	89.8	73.6	81.7	.4	93	16	66	2		19	0	0	0	7.36	-12.75	1.89	17	.0	0		9	4	3
FRENCH FRIGATE SHOALS	80.0	68.6	74.3	3.5	83	18	64	28+		0	0	0	0	1.33	- 1.58	.39	11	.0	0		4	0	0
ROTA														1.50		.24	23	.0	0		0	0	
WOLF AI ATOLL	88.5M	74.9M	81.7M		91	22+	67	18		4	0	0	0					.0	0		0	0	
* * * MARCH 1978																							
GUAM NAS	84.2	73.4	78.8	- 1.2	87	30+	70	6		0	0	0	0	.40	- 1.88	.13	18	.0	0		2	0	0
KAPINGAMARANGI ATOLL	88.5M	75.5M	82.0M		91	24+	70	14		0	0	0	0			2.47	13	.0	0		3		
FRENCH FRIGATE SHOALS	78.6	68.2	73.4	2.3	82	30+	61	9		0	0	0	0	1.41	- 2.37	.38	5	.0	0		5	0	0
ROTA														.93				.0	0		0	0	
WOLF AI ATOLL	88.8M	75.6M	82.2M		91	25	71	31+		0	0	0	0			1.15	12	.0	0		1		
* * * APRIL 1978																							
KAPINGAMARANGI ATOLL	88.3M	74.7M	81.5M		90	30+	72	22+		0	0	0	0			2.70	24	.0	0		6	3	0
ROTA														.64				.0	0		0	0	

See Reference Notes Following Station Index

# LATE REPORTS DAILY PRECIPITATION

HAWAII AND PACIFIC

Station	Total	Day of Month																															
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
HAWAII																																	
* * *																																	
OCTOBER 1977																																	
MAKAWALI 965 A	.14						.01						.08	.01														.01	.02	.01			
* * *																																	
NOVEMBER 1977																																	
MAKAWALI 965 A	.74	.07	.01	.01		.02		.15		.01														.19	.28								
* * *																																	
DECEMBER 1977																																	
MOUNT WAIALEALE 1047 R	26.76		2.48	.87		.12	2.52									.04	2.68	2.24	1.10	.08	1.14	.39	.04					.63	5.35	5.98	.04	1.06	
* * *																																	
JANUARY 1978																																	
MAUNA LOA 511	.17																	.17															
MOHIHI UPR CROSS 1083 A	3.52						.42	.59	.08		.17	.08			.08	.59	1.26							.25									
* * *																																	
FEBRUARY 1978																																	
LANAI AIRPORT 656	.44				.32											.09																	
MOHIHI UPR CROSS 1083 A	1.34	.16						.16	.08						.08														.03				
MOUNT WAIALEALE 1047 R	1.68													.04	.43	.85	.08	.04	.08									.08	.70				
* * *																													.24				
MARCH 1978																																	
LANAI AIRPORT 656	1.32	.76	.20			.05			.22						T	.05	.04																
MOUNT WAIALEALE 1047 R	21.77	.43			.12	.24			1.50	2.09	.20	.51	.24	.04	.87	3.39	.63	.83	2.44	1.38	.31	1.10	.28	.75			.39	.16	.24	1.14	.63	1.42	.24
* * *																																	
APRIL 1978																																	
LANAI AIRPORT 656	2.21							.10	.15				.06	.04	T	.03	.07	1.10		.22	.04	.35	.03	T			.02						

See Reference Notes Following Station Index



# LATE REPORTS DAILY PRECIPITATION

HAWAII AND PACIFIC

Station	Total	Day of Month																															
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
PACIFIC																																	
* * *																																	
FEBRUARY 1977																																	
MIDWAY SAND ISLAND	1.97	.03		.15	T	T		.08	.07	.11	.01	.33	.01	.11			.02	.04	T	.32	.15				T			.54					
* * *																																	
JUNE 1977																																	
LELE I KOSRAE	=	.45	T	.20	T	T	.03	.16	.25	.16	.07	.03	.01	.08	-		.15	.04	.94	.40	.55	.65	.21	.65	.06	.53	1.43	.02	.19				
* * *																																	
JULY 1977																																	
LELE I KOSRAE	=	.07	-	-	-	-	-	.64	.38	.19	1.10	1.36		.24	.04		.45	.40						2.25	.02		.04	.06	.06	.37			
* * *																																	
SEPTEMBER 1977																																	
LELE I KOSRAE	=	.32	.62	.03	.16	.64	1.66	.17	4.32	.02				.08	T	.13	.37	.10	-	-	.98	.09	.01	.10	-	-		.21	.11	.11			
* * *																																	
OCTOBER 1977																																	
WOLEAI ATOLL	=	-	.01	.13	1.02	.15		.12		.12	.02	.02	.30	.02	.26	2.90	1.60	.04	.02	2.00	.04		.09	.14		1.59	.20	2.05	1.06	.02	.04		
* * *																																	
NOVEMBER 1977																																	
FALAI NP I ULITHI ATOLL	=	.15		.10	.12	.03	.12	.05	.10	.15	.15	-	T	.15	.25	.10		.10	.70	.03	.02	.20	.25	.15		.30	.10	-	.09	.46	.20		
GUAM NAS	9.13	.01	.01	T	.12	.03	.10	.17	3.25	1.71	.28	.07	.19	.50	T	.90	T	.11	T	.19	.02	.01	.97	.02		T	.01						
KAPINGAMARANGI ATOLL	=	.70	.20	.34	1.90	.53	.96	.89						.15	4.67	.03	1.12	.26	2.22	.84	.16		.25	.41	.06	-	.46	T					
WOLEAI ATOLL	=			.19	.18								.09	.39	-	T	.04		T	.15	.18	1.53	.03	.16	.45	.19	1.72			.81			
* * *																																	
DECEMBER 1977																																	
FALAI NP I ULITHI ATOLL	5.39	.40	1.25		.05	.04		.05	.15	.20	.15	.30	.20	.15	.20	.10	.05	.02	.05	.07	.02		.15			.02	.10						
GUAM NAS	2.19	.37	.41	.03	.10	.51	T	.08	.13	T			.12	T	.90	.04			T	T					.02	.01	.07						
KAPINGAMARANGI ATOLL	=	.40	.03	.05	.50			.08	.13		.05		.39	T	.65	.18	5.82	.42		.84	.21	-		.10	-	-							
LELE I KOSRAE	=	.13	.58	.01	.03	.09	.03	T			.39	T	.65	.18	5.82	.42		.84	.21	-		.10	-	-									
WOLEAI ATOLL	5.19	1.10	T	.37	.34	.05	.42	.11	.05		.07	.33	.02	.03	.06	.13			.19	.03	.03	T	.16	.64					.47	.05	.54		
* * *																																	
JANUARY 1978																																	
ATUHI	36.46	.02	1.32	.21		.25	.13	3.35	3.46	2.05	1.50	.08	.66	.33	.09	2.55	.76	.48	.55	.84	.68	.05	3.58	2.66	2.24	.98	2.39	.05	.57	3.02	1.47		
FALAI NP I ULITHI ATOLL	=	.15	.05		.05	.07	.15	.10	.08	.10	.05		.10	-		.04		.05	.05			.03			.03	.03	.19	.12	T	.04			
GUAM NAS	.99		.01	.11	T	T	.04	.01	T		.03	T	.06	T	.04			T	T	T		.02	.27	.07	.06	.16	T	.07	.04				
MIDWAY SAND ISLAND	4.44	T		.07	T	.03	.04	.66			.94	.94	.07	.01	.41			.41	.09		.08		.12	.12	.08	.14	.30						
WOLEAI ATOLL	=	.62	.13		.07		.03	.90					1.10				-	1.10	.13	.16		.22	.07		.14								
* * *																																	
FEBRUARY 1978																																	
FALAI NP I ULITHI ATOLL	=	.02	.03	-	-	.06	.05	.15	.32	.08	.20	.67	.27	2.47	.62	T	.01	.13	.07	.04		.11	.03	.04									
GUAM NAS	2.15	.02	.05	.75	.08	.12	.39	.10	.40	T	.09	1.78	.94	.04	T	.07	.05	.06	T	T	T	.01	.03	.03	.19	.12	T	.04					
LELE I KOSRAE	7.36	.24	.10		.39	.09	.29	.29	.04	.01	.09	.39		.04	T	.07	.05	1.89	.19	T	T	.03	.10	1.30	.26	.07	.05						
FRENCH FRIGATE SHOALS	1.33	.24					.29	.29	.04	.01	.09	.39		.04	T	.07	.05	1.89	.19	T	T	.03	.10	1.30	.26	.07	.05						
ROTA	1.50	.13	.13	.05	*	*	.23	.07	.13	.06	.11	.39		.01	.01	.07		.01	.01			.03	.01	.24	.03	*	*	.15	.07				
WOLEAI ATOLL	=				.22			.19	.08		.03	.08					-				.01		.08										
* * *																																	
MARCH 1978																																	
GUAM NAS	.40			T			.02	.15	.32	.08	.20	.67	.27	2.47	.62	T	.01	.13	.07	.04		.11	.03	.04									
KAPINGAMARANGI ATOLL	=	.02	1.75		-			.15	.32	.08	.20	.67	.27	2.47	.62	T	.01	.13	.07	.04		.11	.03	.04									
FRENCH FRIGATE SHOALS	1.41	.02			.38			.07			.09	.06		.19	.13			.94	.59	.28	1.86	.05	.05		.10	.02							
ROTA	.93	.07	.01		*	*	.03	.06			.06			.01	.11	.03		.04				.06	.06	.05		.10	.02						
WOLEAI ATOLL	=	.06			.03			.03	-	1.13	.21	-					.05	.06	.18	.11	.04	.02	*	*	.13	.11	.01	.01					
* * *																																	
APRIL 1978																																	
KAPINGAMARANGI ATOLL	=	.26	*	.85	.11	.10	.44	.07	.27	1.32	.04	.08		.33	.04		-		.06	.66	.23	1.82	.06	2.70	.46	.48		.11	.52				
ROTA	.64	*	*	.18	.12	.02	.01	*	*										.03	.01	*	*	.11	.03	.01								

## HAWAII AND PACIFIC

See Reference Notes Following Station Index

# LATE REPORTS DAILY TEMPERATURES

HAWAII AND PACIFIC

Station		Day of Month																															Average	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
PACIFIC	MAX MIN																																	
* * *	MAX MIN																																	
FEBRUARY 1977	MAX MIN																																	
MIDWAY SAND ISLAND	MAX MIN	72 56	68 52	74 61	70 60	70 55	76 66	68 55	69 60	67 55	65 54	74 60	66 61	64 53	66 50	71 59	76 66	73 64	71 63	71 55	59 52	63 53	70 58	74 66	70 59	68 55	64 54	67 58	72 64				69.2 58.1	
* * *	MAX MIN																																	
JUNE 1977	MAX MIN																																	
LELE I KOSRAE	MAX MIN	88 75	88 72	91 74	91 75	89 76	89 77	89 75	90 74	90 74	88 73	89 76	90 75	89 73	90 76		91 68	90 73	88 78	88 76	91 70	89 76	86 73	89 77	85 74	88 75	88 75	90 76	91 76	89 77	90 75		89.1 74.7	
* * *	MAX MIN																																	
JULY 1977	MAX MIN																																	
LELE I KOSRAE	MAX MIN	90 75	91 76	90 70						90 73	86 75	90 75	89 80	89 75	88 75	89 77	90 75	87 77	90 78	91 81	92 78	91 76	91 77	90 79	90 78	88 78	89 75	91 76	92 77	90 75	91 78	91 77		89.7 76.4
* * *	MAX MIN																																	
SEPTEMBER 1977	MAX MIN																																	
LELE I KOSRAE	MAX MIN	88 76	90 76	89 75	92 76	92 76	92 73	89 76	88 72	88 73	91 75	92 77	90 75	92 77	92 75	89 76	85 73	88 76			91 75	86 75	91 75	91 74			93 76	88 77	89 74	89 76	89 76		89.8 75.2	
* * *	MAX MIN																																	
OCTOBER 1977	MAX MIN																																	
WOLEAI ATOLL	MAX MIN		90 72	90 75	89 73	88 76	89 79	90 75	89 73	90 74	89 76	88 77	90 76	88 77	89 75	87 74	85 72	88 76	90 79	88 75	88 78	90 81	87 77	89 81	89 76	87 78	89 75	90 75	86 73	85 74	88 77	90 74		88.4 75.8
* * *	MAX MIN																																	
NOVEMBER 1977	MAX MIN																																	
FALALOP I ULITHI ATOLL	MAX MIN	88 76	88 78	89 80	88 79	88 80	87 76	88 80	88 76	89 76	87 76		90 80	88 76	89 76	88 76	89 78	88 76	88 76	87 76	89 77	88 77	87 80	89 80	88 77	88 79	88 79		89 80	89 80	88 78		88.3 77.8	
GUAM NAS	MAX MIN	85 76	88 77	87 76	87 77	85 77	87 78	85 76	81 76	83 77	85 76	86 77	83 76	85 76	86 77	81 75	85 77	83 78	84 77	86 78	84 77	85 78	84 78	85 78	85 78	85 78	84 78	84 78	85 78	85 78			84.8 77.1	
KAPINGAMARANGI ATOLL	MAX MIN	86 72	88 74	84 72	87 78	86 70	86 70	85 70	88 77	89 74	89 74	88 75	88 73	89 75	89 75	90 79	87 74	88 75	90 76	88 76	87 74	88 75	88 75	86 76	85 75	85 75	86 75	87 70		85 80		87.1 73.7		
WOLEAI ATOLL	MAX MIN	88 74	90 74	90 76	90 75	88 74	90 75	88 74	87 78	87 74	90 71	90 70	91 76	87 76		89 78	90 76	88 76	90 76	90 71	87 76	89 73	87 78	86 71	85 75	91 70	88 73	89 78	90 77	89 76	91 76		88.8 74.8	
* * *	MAX MIN																																	
DECEMBER 1977	MAX MIN																																	
FALALOP I ULITHI ATOLL	MAX MIN	87 77	89 80	88 76	88 76	88 76	89 80	88 77	89 80	88 76	88 77	87 76	88 76	88 76	89 80	87 76	89 80	89 80	88 76	90 81	90 77	89 77	88 77	90 78	88 77	89 77	88 76	86 76	88 76	89 80	89 80	86 76		88.3 77.6
GUAM NAS	MAX MIN	83 78	82 78	84 78	84 77	84 78	84 78	83 78	84 77	85 77	84 76	84 77	85 77	84 77	84 78	84 76	85 76	86 77	84 76	85 75	84 76	83 75	85 74	83 75	84 75	84 75	82 75	84 75	82 75	84 75	82 79		83.9 76.5	
KAPINGAMARANGI ATOLL	MAX MIN	86 80	86 80	86 79	86 80	86 79	89 80	85 80	89 80	89 79	89 74	89 79	88 76	88 79	86 79	89 76	87 79	89 77	89 77	89 76	89 76	88 76	89 78	89 78	95 75	95 75	95 75	95 75	95 75	95 78	95 78		89.3 77.5	
LELE I KOSRAE	MAX MIN	91 76	92 72	92 74	89 72	91 73	91 74	91 75	90 69	92 70	92 76	93 78	92 77	90 75	91 73	90 72	88 74	92 78	90 75	90 69	90 75			90 71			91 76	90 77					90.8 74.1	
WOLEAI ATOLL	MAX MIN	87 74	88 76	90 76	89 76	90 77	85 74	87 73	88 78	90 77	90 75	90 78	90 76	89 74	89 78	90 76	90 77	89 76	91 79	90 77	90 75	90 76	90 75	90 78	90 75	86 72	89 79	89 77	89 77	90 76	88 73	89 77		89.1 76.0
* * *	MAX MIN																																	
JANUARY 1978	MAX MIN																																	
FALALOP I ULITHI ATOLL	MAX MIN	89 76	89 80	90 80	88 77	87 76	90 79	88 75	90 81	86 76	90 79	89 76	90 80	88 76		88 76	84 70	88 72	86 70	82 70	84 70	82 71	82 69	83 74	87 76	86 70	86 72	86 72			87 72	88 77		87.0 74.8
GUAM NAS	MAX MIN	85 77	84 73	84 73	81 76	83 76	82 74	83 76	83 75	83 75	84 74	84 74	80 73	81 73	81 72	82 72	82 74	83 75	82 75	84 75	84 72	84 72	84 77	85 75	81 73	83 74	81 73	82 73	82 73	83 75	84 75		82.8 74.2	
MIDWAY SAND ISLAND	MAX MIN	68 56	69 56	71 62	74 62	70 62	71 63	70 60	70 58	69 63	71 64	71 60	63 58	69 61	67 58	66 55	66 54	71 63	68 60	68 55	72 65	68 61	67 57	73 65	72 62	70 60	72 59	66 60	70 61	66 60	72 62	66 57		69.2 60.0
WOLEAI ATOLL	MAX MIN	91 74	87 77	89 73	90 78	88 71	89 71	86 78	89 71	90 73	90 71	89 73	89 78	90 71	88 74	88 77	90 78	86 78	89 80	90 71	86 71	86 78	87 75	87 76	87 73	89 76	89 79	88 75	88 79	88 79	89 76		88.6 75.3	
	MAX MIN																																	
	MAX MIN																																	
	MAX MIN																																	
	MAX MIN																																	

See Reference Notes Following Station Index

## HAWAII AND PACIFIC

See Reference Notes Following Station Index

# REFERENCE NOTES

HAWAII AND PACIFIC

Additional information regarding the climates of Hawaii and the Pacific Ocean Area may be obtained by writing to the National Climatic Center, Federal Building, Asheville, N.C. 28801, or to any National Weather Service Office near you. Additional precipitation data for Hawaii are contained in "HOURLY PRECIPITATION DATA HAWAII."

**DIMENSIONAL UNITS:** Unless otherwise indicated, dimensional units used in this bulletin are: Temperature in F., precipitation and evaporation in inches, and wind movement in miles. In "Supplemental Data" table directions entered in figures are tens of degrees. Resultant wind is the vector sum of wind directions and speeds divided by the number of observations.

**OBSERVATION TIME:** Data in the "Monthly Extremes," "Daily Precipitation" table, "Daily Temperature" table, and "Evaporation and Wind" table are for the 24 hours ending at time of observation unless indicated otherwise by reference letters in the Station Index. The Station Index shows observation time in local standard time.

**EVAPORATION** is measured in the standard Weather Service-type pan of 4-foot diameter unless otherwise noted below in the Evaporation and Wind table. Max and Min values in the Evaporation and Wind table are extremes of temperature of water in pan as recorded during 24 hours ending at time of observation. Wind is the total wind movement in miles over the evaporation pan as determined by a continuous anemometer recorder located 6-8 inches above the pan.

**NORMALS** for all stations are climatological standard normals based on the period 1941-1970.

**STATION NAMES:** Hawaii state key numbers are included following station names in the several tables.

**LATE REPORTS AND CORRECTIONS** will be carried only in the June and December issues of this bulletin.

**INTERPOLATED VALUES** for monthly precipitation totals may be found in the annual issue of this publication.

**IN THE DATA TABLES THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING:**

- No record in the "Supplemental Data" table, "Daily Precipitation" table, "Evaporation and Wind" table, and the Station Index.
- No record in the "Monthly Summarized Data" table and the "Daily Temperature" table is indicated by no entry.
- And also on an earlier date or dates.
- Highest observed one minute windspeed. This station is not equipped with an instrument to measure fastest mile data.
- \* Amount included in following measurement, time distribution unknown.
- ‡ Extreme occurred at station with incomplete data which may have been exceeded.
- A The letter "A" shown following station name in "Monthly Summarized Data" table, "Daily Precipitation" table, and "Station Index," indicates amount carried in the "Total" column is for the period from last measurement of a preceding month through the last measurement of the current month. See "Daily Precipitation" table of this and previous bulletins for dates of measurement. Where gages are read only once monthly, measurements made on the first of a month are credited to the last day of the preceding month.
- B Adjusted to a full month.
- M One or more days of record missing; if average value is entered, less than 10 days record is missing. See "Daily Temperature" table for detailed daily record.
- R Amounts from recording gage.
- T Trace, an amount too small to measure.
- V Includes total for previous month.

**IN THE STATION INDEX THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING:**

- AR Observation made after rain.
- C In Special Column of Station Index indicates Recording Rain Gage Station. Hourly Precipitation values are processed for special purposes, and are published later in the "Hourly Precipitation Data" bulletin. If daily amounts are published in "Monthly Summarized Data" bulletin they are from a separate non-recording gage, except where indicated by reference 'R'. Such amounts may differ from amounts published from the recording gage in the "Hourly Precipitation Data" bulletin.
- J "Supplemental Data" table.
- MO Gage read once monthly; usually on the last day.
- OC Gage readings at periods varying from a few weeks to several months.
- S Storage precipitation station. Precipitation measurements, made at irregular intervals, are published in the annual issue of this publication, beginning with the 1977 data. Prior data are found in the "Storage-Gage Precipitation Data" Bulletin, which was discontinued with the 1976 issue.
- SS Observation time is near sunset.
- VAR Observation time is variable.
- WI Gage read weekly or irregularly only.
- WM Gage read weekly and last day of month.
- # Thermometers are generally exposed in a shelter located a few feet above sod-covered ground; however, this reference indicates that the thermometers are exposed in a shelter located on the roof of a building.
- % Maximum and minimum temperatures are the highest and lowest hourly readings for each day.
- # DRAINAGE CODE: KAUAI: 1-NORTHERN 2-SOUTHEASTERN 3-SOUTHWESTERN OAHU: 1-WINDWARD KOOLAU 2-HONOLULU 3-SOUTH CENTRAL 4-WESTERN 5-NORTH CENTRAL MOLOKAI: 1-(NO INTRA-ISLAND DIVISIONS) LANAI: 1-(NO INTRA-ISLAND DIVISIONS) MAUI: 1-NORTHEASTERN 2-SOUTHERN 3-CENTRAL 4-WESTERN HAWAII: 1-NORTHERN 2-EASTERN 3-SOUTHERN 4-WESTERN 5-CENTRAL

Stations appearing in the tables with no data were either missing or received too late to be included in this issue.

The Pacific includes stations in the Trust Territory of the Pacific Islands, Territory of Guam, American Samoa, and other scattered islands and atolls.

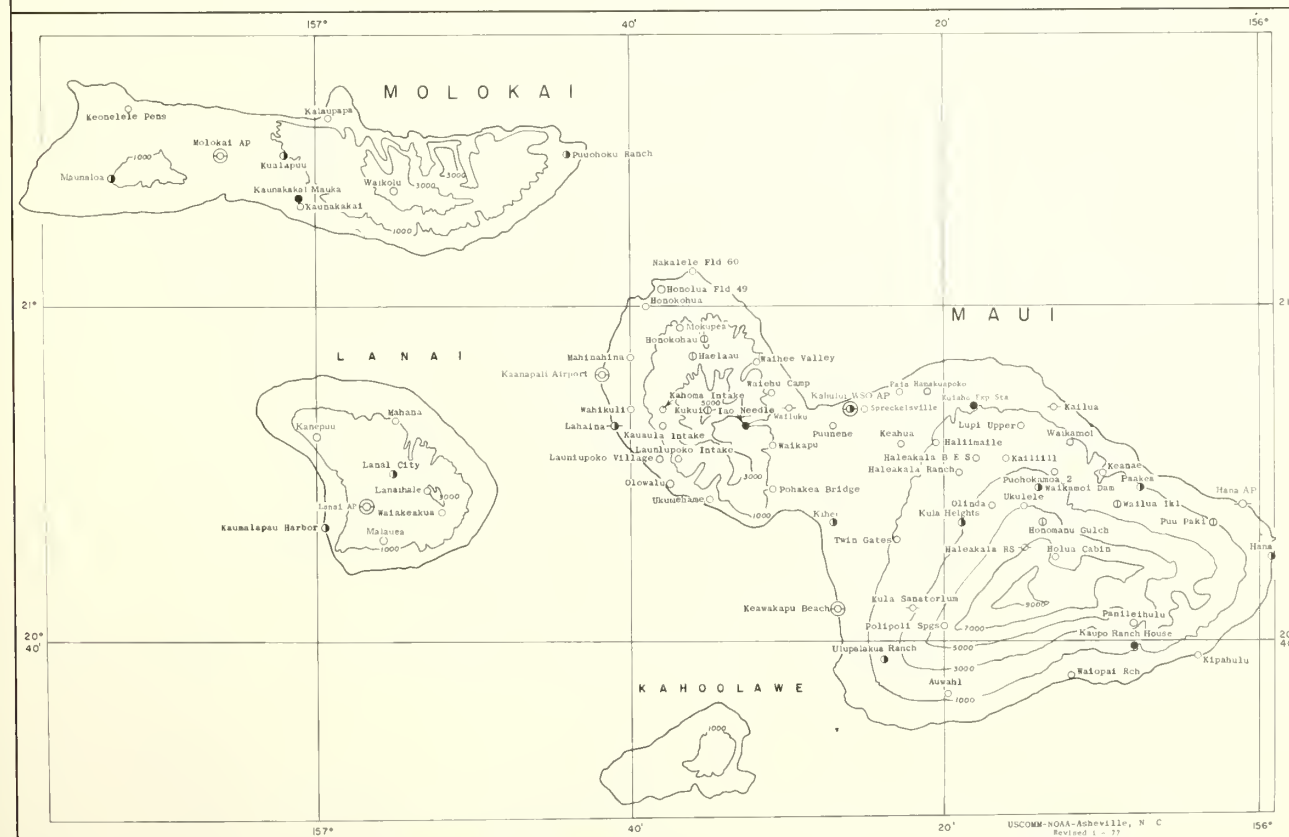
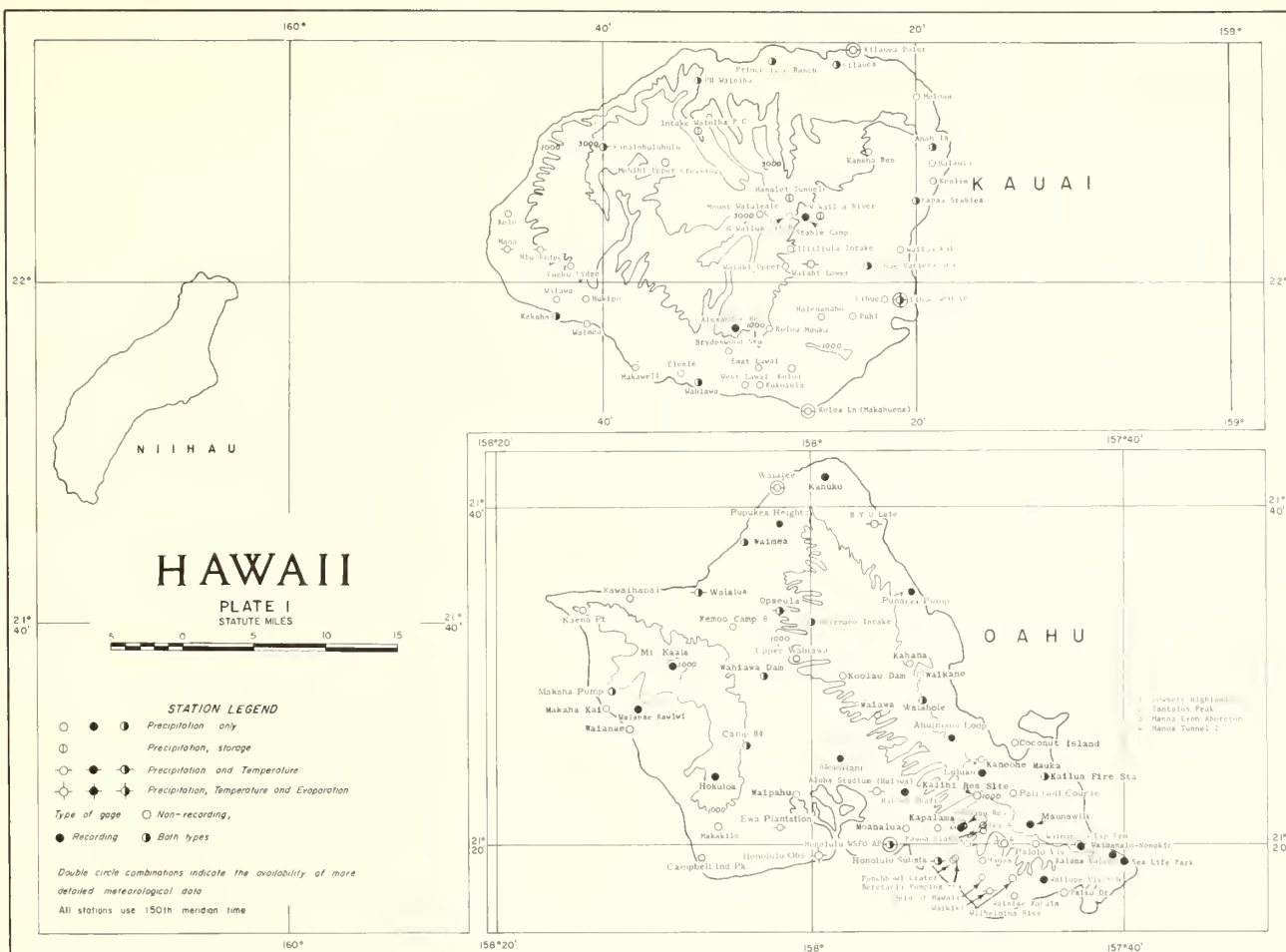
General weather conditions in the U.S. for each month are described in the CLIMATOLOGICAL DATA NATIONAL SUMMARY and STORM DATA.

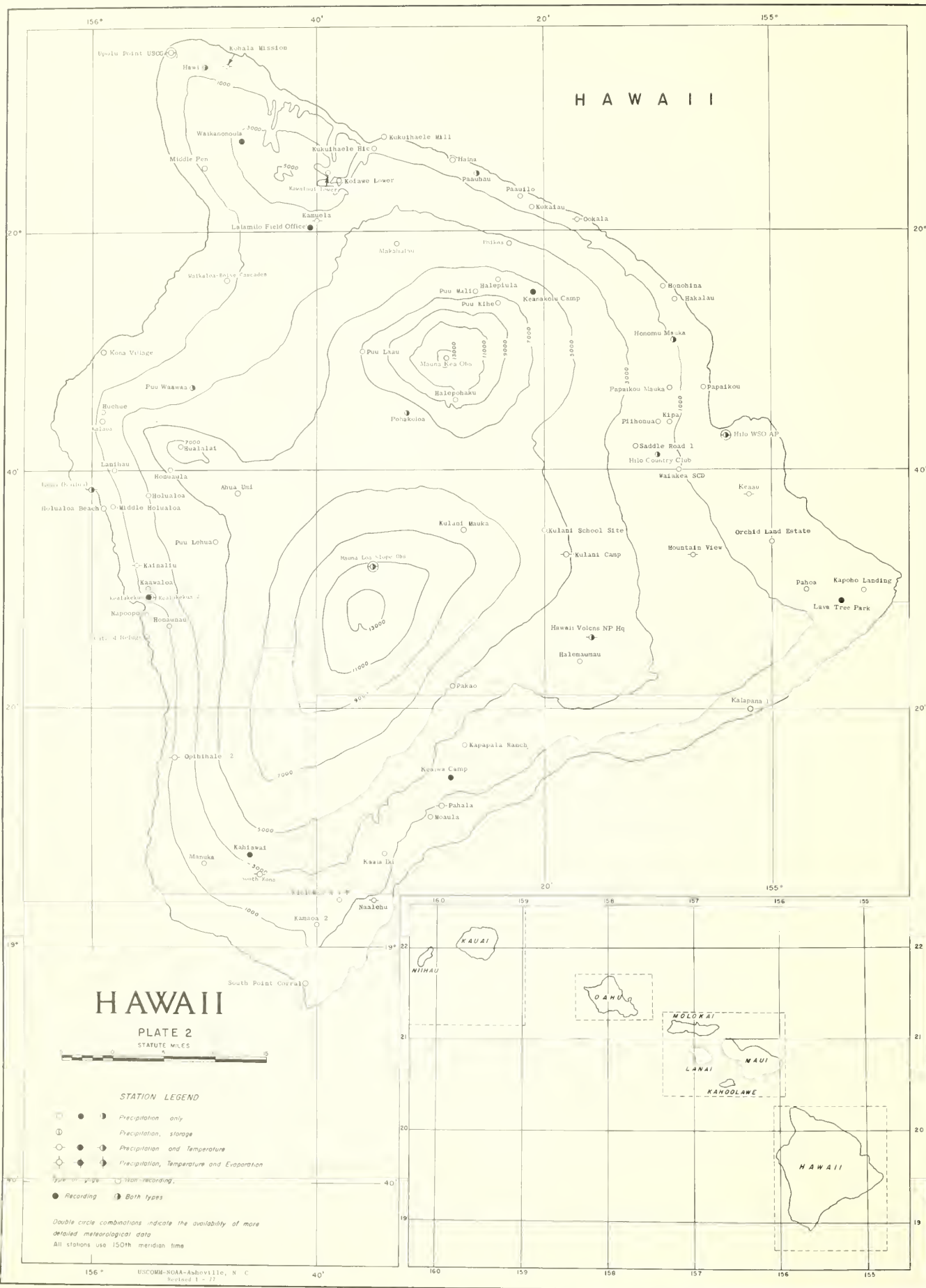
Information concerning the history of changes in locations, elevations, exposure, etc., of substations through 1957 may be found in the publication "Substation History" for this State, price 40 cents. Similar information for regular National Weather Service Offices may be found in the latest annual issue of Local Climatological Data, price 20 cents. These publications may be obtained from the National Climatic Center at the address shown above.

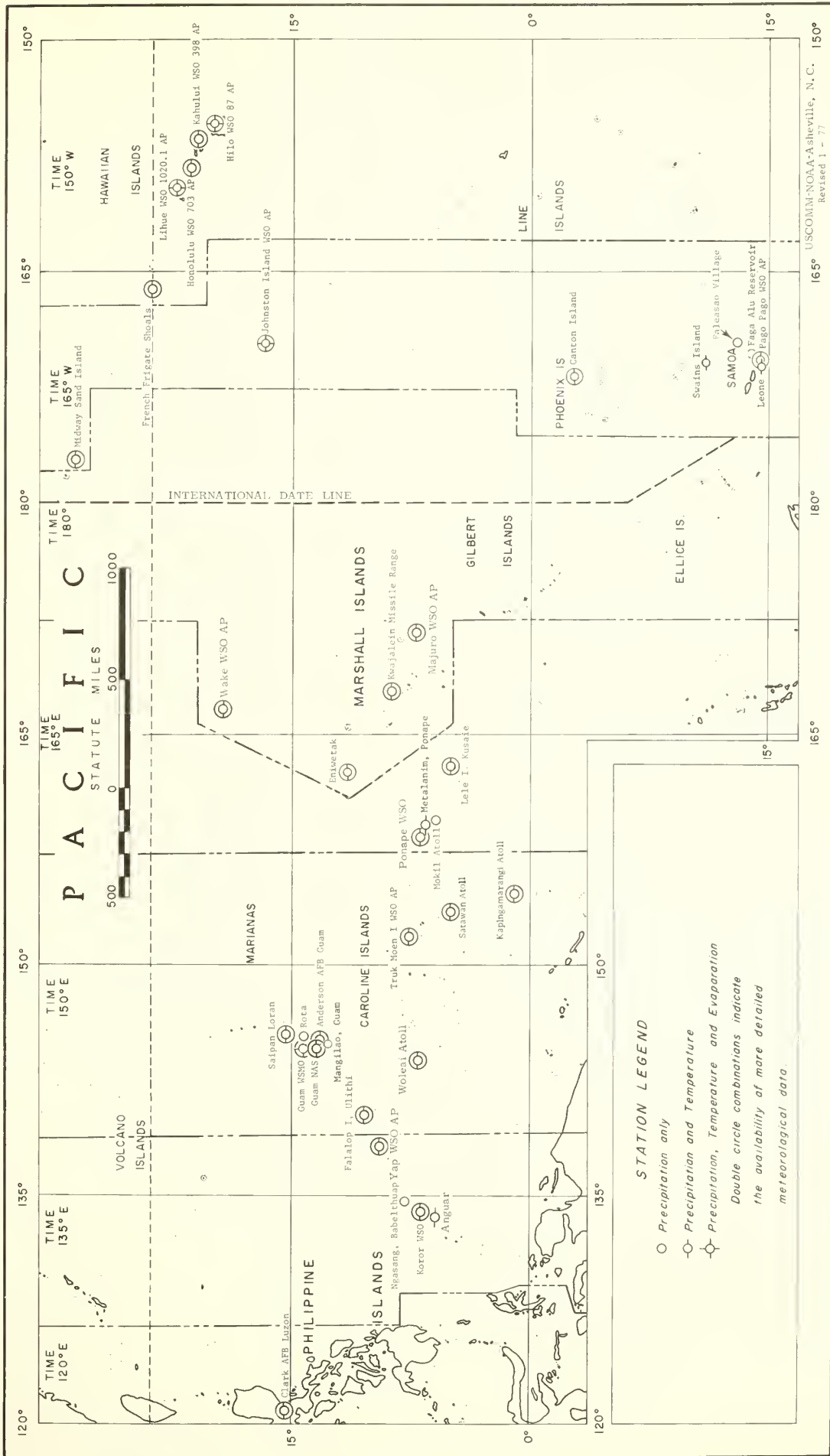
Subscription Price: \$5.10 a year for each section including annual summary; \$5.55 additional for foreign mailing; 40¢ single copy; 30¢ annual summary. Make checks payable to Department of Commerce, NOAA; send payments and orders to: National Climatic Center, Federal Building, Asheville, N. C. 28801. Attn: Publications.

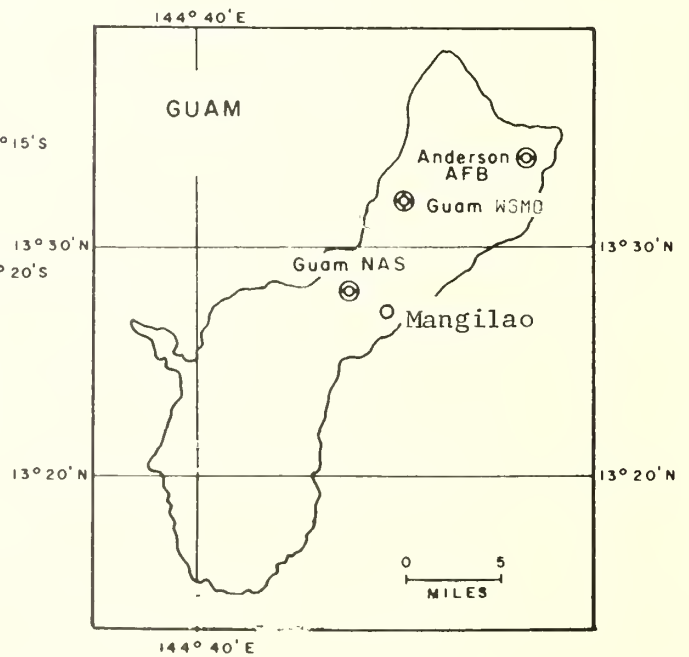
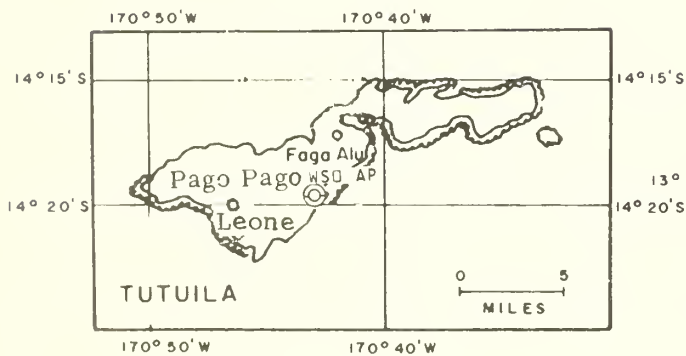
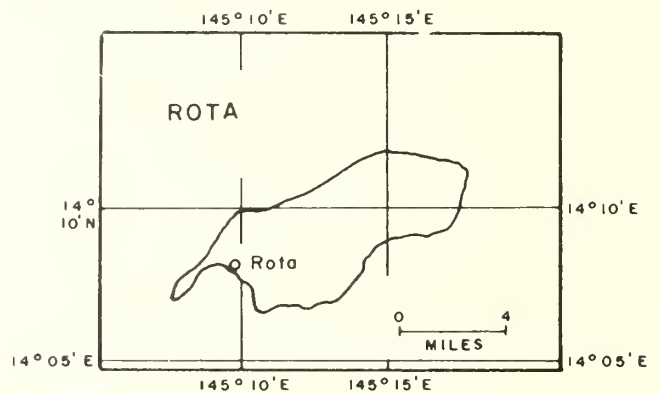
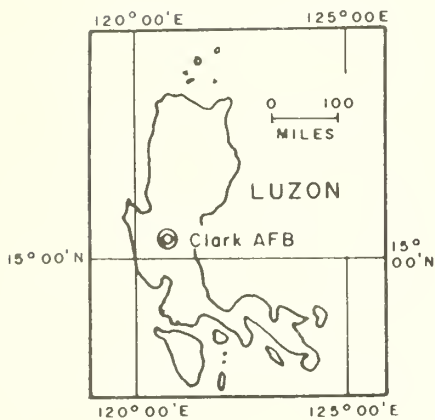
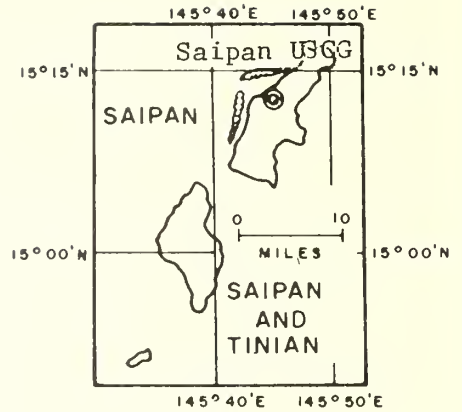
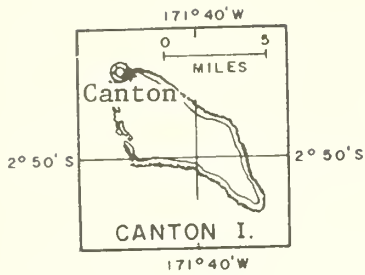
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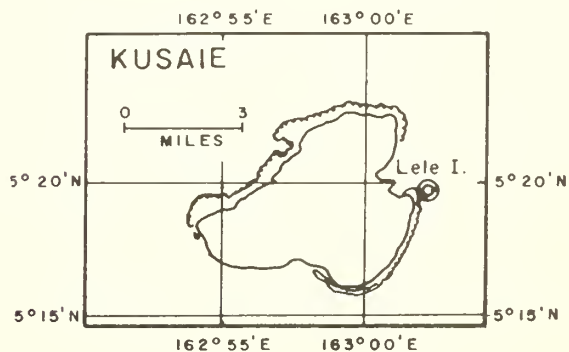
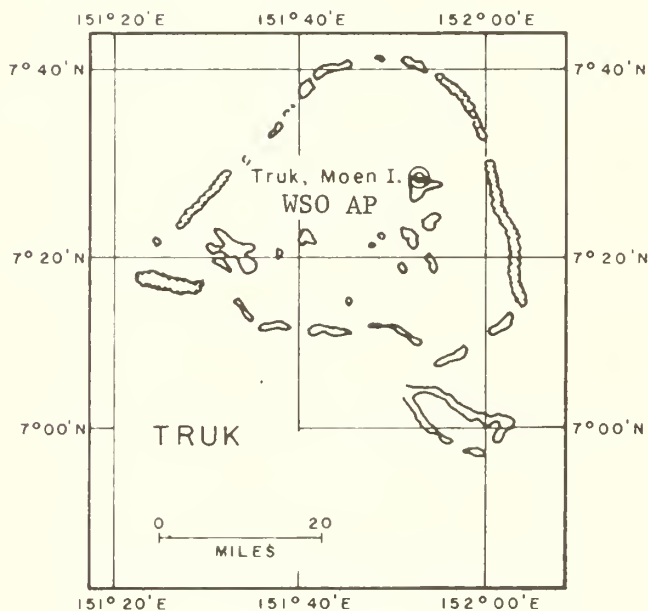
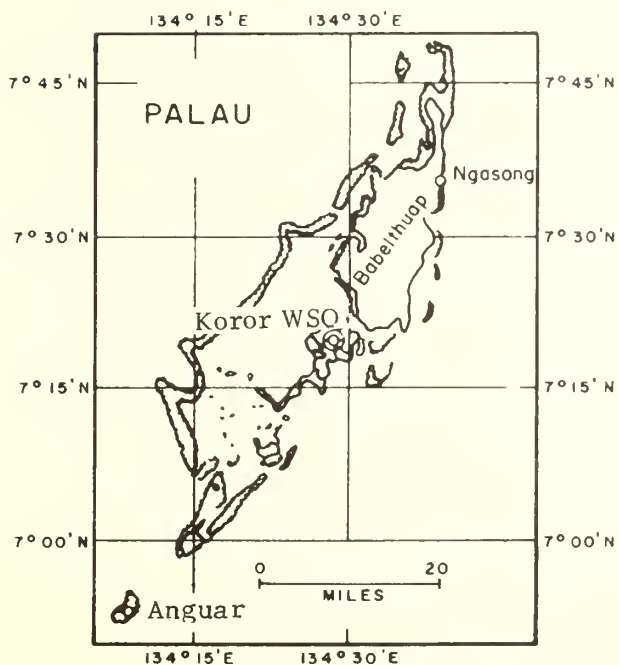
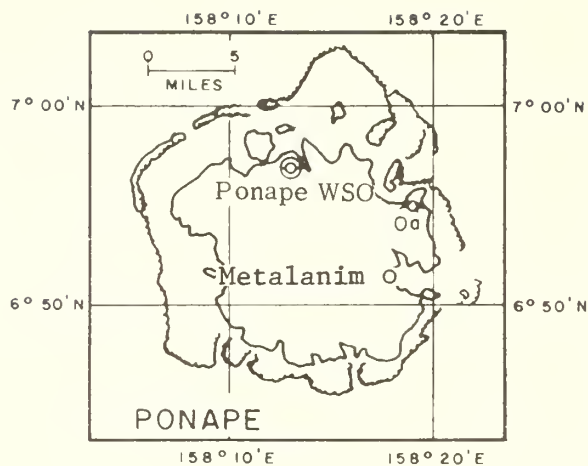
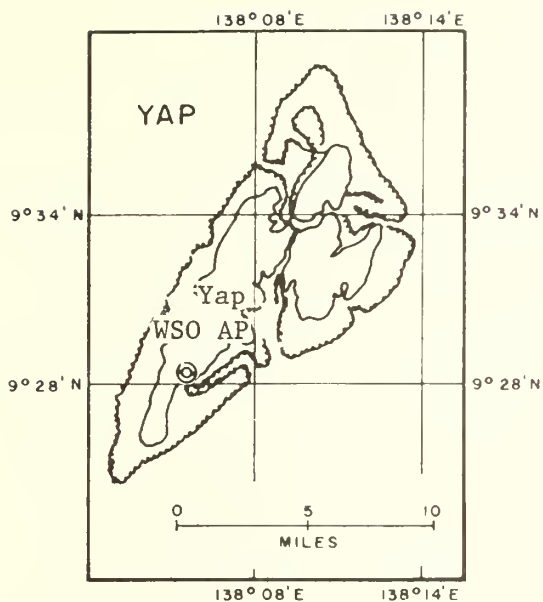






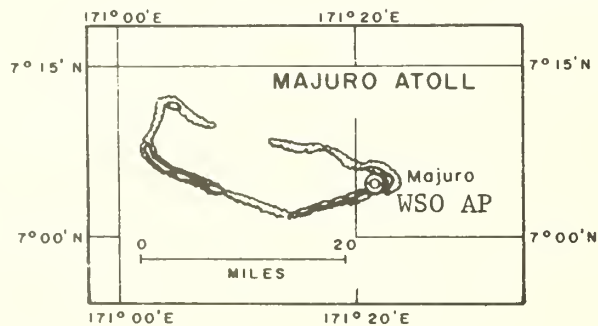
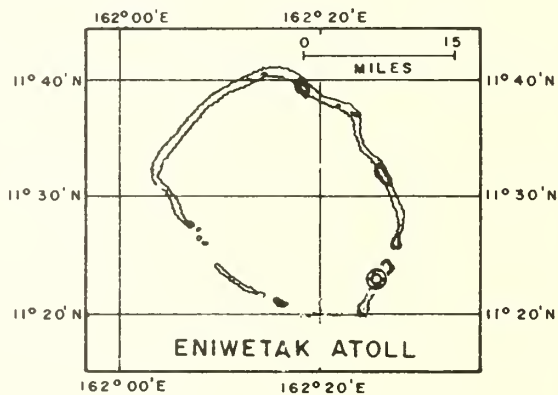
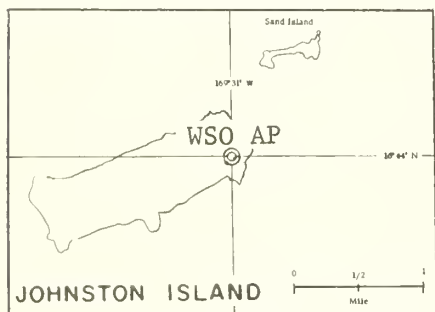
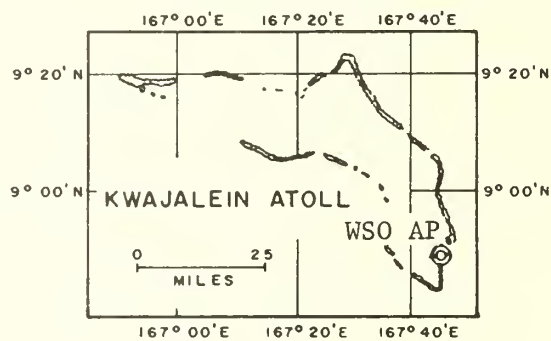
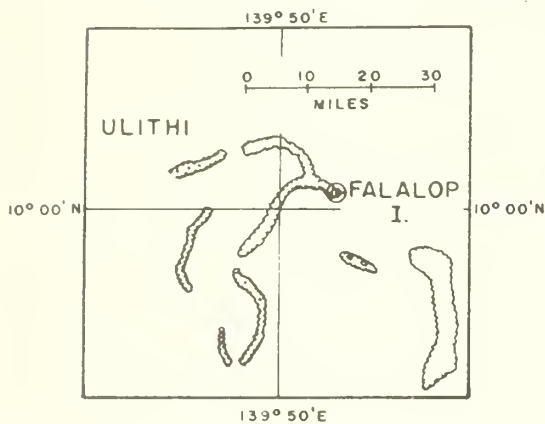
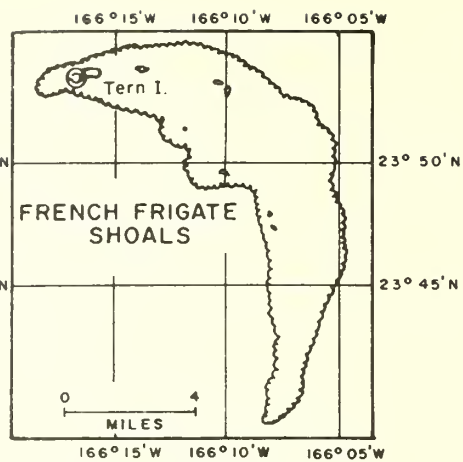
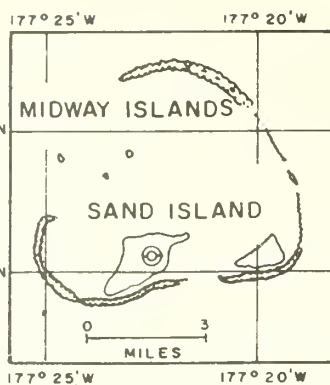
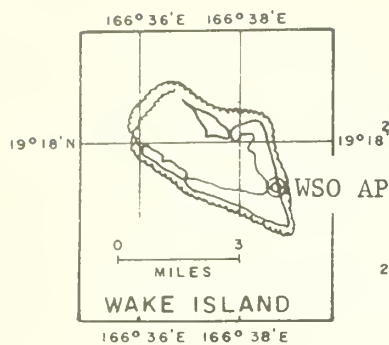






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**THIRD CLAS**

# Climatological Data



## HAWAII AND PACIFIC

### TEMPERATURE AND PRECIPITATION EXTREMES

HAWAIIAN STATIONS ONLY

HIGHEST TEMPERATURE:	2 STATIONS	93	DATE	28+
LOWEST TEMPERATURE:	MAUNA KEA 085 111.2	HAWAII	25	DATE 10
GREATEST TOTAL PRECIPITATION:	PIIHONUA 89	HAWAII	38.20	
LEAST TOTAL PRECIPITATION:	10 STATIONS		.00	
GREATEST 1 DAY PRECIPITATION:	WAIAKEA SCO 88.2	HAWAII	6.20	DATE 06

### SUPPLEMENTAL DATA

	WIND (SPEED - M.P.H.)						RELATIVE HUMIDITY AVERAGES - PERCENT				NUMBER OF DAYS WITH PRECIPITATION										PERCENT OF POSSIBLE SUNSHINE AVERAGE (TENTHS)	SKY COVER SUNRISE TO SUNSET
	RESULTANT DIRECTION	RESULTANT SPEED	AVERAGE	FASTEST MILE	DIRECTION OF FASTEST MILE	DATE OF FASTEST MILE	STANDARD OF TIME				TRACE	.01-.09	.10-.49	.50-.99	1.00-1.99	2.00 AND OVER	TOTAL					
							GREENWICH CIVIL															
							12	18	00	06												
GUAM WSMO	-	-	-	2S	SW	16	-	80	77	92	1	5	14	3	1	1	25	33	9.0			
HILO WSO 87 AP	3	0.6	6.3	17	E	21	88	83	75	84	1	5	18	4	1	1	30	37	8.3			
HONOLULU WSO 703 AP	7	14.8	15.3	30	NE	21+	84	75	58	78	20	4	0	0	0	0	24	73	5.4			
JOHNSTON WSO AP	9	15.8	16.4	32	E	28	81	78	72	76	8	6	4	1	0	0	19	88	4.9			
KAHULUI WSO 398 AP	5	16.1	16.4	37	NE	20	-	71	57	67	11	5	1	0	0	0	17	66	4.7			
KOROR WSO	19	1.7	5.5	18	SE	13	88	-	77	73	1	6	10	4	1	1	23	56	8.9			
KWAJALEIN MISSILE RGN	8	9.0	10.0	32++	8	30	84	85	76	78	7	5	13	5	1	0	31	-	7.5			
LIHUE WSO 1020.1 AP	6	14.5	15.0	26	NE	21	84	81	67	77	6	14	9	1	0	0	30	65	7.1			
MAJURO WSO AP	8	5.4	7.4	26	E	12	83	85	79	79	2	7	9	3	3	3	27	57	8.5			
PAGO PAGO WSO AP	11	10.5	13.7	29	SE	03	81	81	71	79	9	6	6	3	0	0	24	29	7.3			
PONAPE WSO	-	-	-	16	NE	31+	93	-	73	79	3	5	10	1	3	1	23	49	7.6			
TRUK MOEN I. WSO AP	10	2.1	6.0	22	SW	19	87	-	75	73	4	7	6	3	4	0	24	30	8.9			
WAKE ISLAND WSO AP	9	12.9	13.9	26	E	19+	93	94	77	82	6	18	5	1	0	0	30	59	7.9			
YAP WSO AP	21	2.2	6.2	19	SE	05	87	-	76	73	2	10	8	3	1	1	25	28	9.2			

I CERTIFY THAT THIS IS AN OFFICIAL PUBLICATION OF THE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION AND IS COMPILED FROM RECORDS ON FILE AT THE NATIONAL CLIMATIC CENTER, ASHEVILLE, NORTH CAROLINA 28801.

*Daniel B. Mitchell* DIRECTOR  
NATIONAL CLIMATIC CENTER

## MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

HAWAII AND PACIFIC  
JULY 1978

STATION		TEMPERATURE										PRECIPITATION													
		AVERAGE MAXIMUM	AVERAGE MINIMUM	AVERAGE	DEPARTURE FROM NORMAL	HIGHEST	DATE	LOWEST	DATE	DEGREE DAYS	NO. OF DAYS				TOTAL	DEPARTURE FROM NORMAL	GREATEST DAY	DATE	SNOW, SLEET			NO. OF DAYS			
											30° OR HIGHER	32° OR HIGHER	32° OR HIGHER	32° OR HIGHER					TOTAL	MAX. DEPTH ON GROUND	DATE	1.0 OR MORE	.50 OR MORE	1.00 OR MORE	
HAWAII																									
ISLAND OF KAUAI																									
ANAHOLA 1114		A													1.81									0	0
KANALOHULU 1075			71.8	57.3	64.6		78	24	54	25		0	0	0	0	1.25	.42	2	.0	0			5	0	0
KILAUEA POINT 1133			84.0M	71.6M	77.8M		86	24	64	20		0	0	0	0	3.65	.56	15	.0	0			1	0	0
KOLOA 936		A													6.32			.0	0						
LIHUE WSO AP 1020.1		//R	84.1	73.0	78.6	.2	87	30	68	11		0	0	0	0	2.74	.87	.60	2	.0	0		10	1	0
MANA 1026															.40	-.22	.34	2	.0	0			1	0	0
N. WAILUA OITCH 1051		A													19.33			.0	0						
PH. WAINIHA 1115															6.54	-3.46		.0	0						
PUEHU RIDGE 1040															1.18	-.08	.80	2	.0	0		2	1	0	0
WAHIHAWA 930		A													1.71	-.06		.0	0						
WAIHAI LOWER 1054			75.5	67.3	71.4		79	25	65	29		0	0	0	0	13.14	3.47	2.48	2	.0	0		28	10	1
WAIHEA 947															.60	.16	.60	2	.0	0		1	1	0	0
ISLAND					73.1										4.89				.0						
ISLAND OF OAHU																									
ALOHA STADIUM-HALAWA			85.2M	72.8M	79.0M		87	27	71	17		0	0	0	0	.14		.10	18	.0	0		1	0	0
B. T. O. LAIE 903.1			84.8	71.5	78.2		89	10	68	25		0	0	0	0	1.32		.24	29	.0	0		4	0	0
HONOLULU OBSERV. 702.2			89.0	71.2	80.1		91	27	67	23		11	0	0	0	.23		.15	18	.0	0		1	0	0
HONOLULU WSO 703 AP		R	86.0	71.9	79.0	-1.1	90	25	69	17		1	0	0	0	.20	-.40		.0	0			0	0	0
KANEHE MAUKA 781			80.7	72.5	76.6	.0	82	31	70	17		0	0	0	0			.48	25	.0	0				
KOOLAU DAM 833		A													7.65		.83	4	.0	0		20	8	0	
MANOA LYON ARBORETUM			79.6	68.7	74.2		86	25	67	18		0	0	0	0	13.24	2.05	4	.0	0		25	7	3	
NUUANU RES. 4 783															7.72	-1.10	1.82	6	.0	0		19	4	1	
OPAEULA 870		A	80.1	68.4	74.3	1.9	87	29	66	31		0	0	0	0					.0	0				
PALOLO VALLEY 718		R													10.72	-.48	1.94	6	.0	0		19	7	3	
WAIHOLE 837		A													8.05				.0	0					
WAIKALE 896.3			83.2M	71.5M	77.4M		86	27	66	20		0	0	0	0	1.57		.19	18	.0	0		6	0	0
WAIKALE 847		A	84.2	67.3	75.8	-.3	92	7	62	30		1	0	0	0	.34	-.61	.11	25	.0	0		1	0	0
WAIKIKI 717.2			87.6	73.7	80.7		90	26	70	17		1	0	0	0	.08		.03	18	.0	0		0	0	0
WAIMANALO EXP. FM 795.1															.78		.15	18	.0	0		3	0	0	
WAIPIHU 750		A													.16				.0	0		0	0	0	0
ISLAND					77.5										3.73				.0						
ISLAND OF MOLOKAI																									
MOLOKAI AP S24			86.7	70.0	78.4		90	27	60	27		2	0	0	0	.19		.10	17	.0	0		1	0	0
ISLAND					78.4										.19				.0						
ISLAND OF LANAI																									
LANAI CITY 672		A	76.5M	66.8M	71.7M	.3	80	26	63	17		0	0	0	0	.58	-1.56	.18	25	.0	0		2	0	0
ISLAND					71.7										.58				.0						
ISLAND OF MAUI																									
HALEAKALA B.E.S. 434		A													3.10		.90	6	.0	0		9	1	0	
HALEAKALA RS 338			67.0	48.3	57.7	1.3	73	28	41	30		0	0	0	0	1.87	-.50	1.19	7	.0	0		3	1	1
HANA AIRPORT 355			82.4	71.5	77.0		85	25	68	24		0	0	0	0	5.09		.90	6	.0	0		15	3	0
HONOKOHU 493		A													2.58		.35	19	.0	0					
KANAPALI AP 453.1			85.0	70.4	77.7		88	30	66	8		0	0	0	0	.16		.06	18	.0	0		0	0	0
KAHULUI WSO 398 AP		R	87.5	73.3	80.4	2.2	91	25	67	23		3	0	0	0	.40	.01	.29	6	.0	0		1	0	0
KAILUA 446			78.4M	69.7M	74.1M	1.4	65	21				0	0	0	0	11.95	1.28	1.79	7	.0	0				
KEANAE 346		A													22.80				.0	0					
KIPAHULU 258															6.00	-2.92	.52	18	.0	0		22	2	0	
KULA SANATORIUM 267			74.5	58.1	66.3	.7	76	27	55	14		0	0	0	0	.25	-1.92	.25	7	.0	0		1	0	0
LAHAINA 361			88.3	69.5	78.9	1.3	90	30	66	14		2	0	0	0	.18	-.03	.16	6	.0	0		1	0	0
PAIA 406															1.44	-.24	.26	17	.0	0		6	0	0	
WAILUKU 386		A													.48	-.26	.19	7	.0	0		2	0	0	
ISLAND					73.2										4.33				.0						
ISLAND OF HAWAII																									
HAWAII VOLCANO NP HQ 54		R	69.8	56.4	63.1	.4	76	25	54	31		0	0	0	0	9.98	4.75	2.65	6	.0	0		16	4	2
HILO WSO AP 87		A	83.6	70.6	77.1	1.8	88	25	66	23		0	0	0	0	11.19	1.65	2.76	6	.0	0		24	6	2
HUEHUE 92.1															3.26		1.61	8	.0	0		4	2	1	
KAHALUO 73.2			78.6	62.4	70.5		85	22	59	18		0	0	0	0	5.93		1.13	9	.0	0		11	4	1
KAPOHO BEACH 93.11			85.9M	71.2M	78.6M		92	27	67	17		0	0	0	0	5.44		2.12	6	.0	0		1	1	1
KEARU 92															15.28		3.01	6	.0	0					
KONA KAILUA 68.3		A	85.1M	73.2M	79.2M		88	3	70	31		0	0	0	0	1.22		.40	11	.0	0		0	0	0
KUKIHALE HIC 199															8.64		2.25	6	.0	0		20	5	2	
KULANI CAMP 79			65.4M	52.8M	59.1M		73	17	46	1		0	0	0	0	10.13		4.00	6	.0	0		18	4	3
PAHALA 21		A													1.35		1.10	6	.0	0		2	1	1	

SEE REFERENCE NOTES FOLLOWING STATION INDEX



# MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

HAWAII AND PACIFIC  
JULY 1978

STATION	TEMPERATURE											PRECIPITATION																
	AVERAGE MAXIMUM	AVERAGE MINIMUM	AVERAGE	DEPARTURE FROM NORMAL	HIGHEST	DATE	LOWEST	DATE	DEGREE DAYS	NO. OF DAYS					TOTAL	DEPARTURE FROM NORMAL	GREATEST DAY	DATE	SNOW, SLEET			NO. OF DAYS						
										MAX.	MIN.								TOTAL	DEPARTURE FROM NORMAL	GREATEST DAY	DATE	TOTAL	MAX. DEPTH ON GROUND	DATE	.10 OR MORE	.50 OR MORE	1.00 OR MORE
											30° OR ABOVE	20° OR ABOVE	10° OR ABOVE	0° OR BELOW														
HAWAII																												
PUUKOHOLA HEIAU 98.1	90.8M	70.8M	80.8M		93	11				28	0	0	0	0	.00		.00		.0	0		0	0	0				
SOUTH KONA 2.31	78.9	60.5	69.7		85	27	56	18		0	0	0	0	0	1.01		.48	23	.0	0		3	0	0				
WAIKAE 500 88.2															26.90		6.20	6	.0	0		29	18	10				
ISLAND			72.3												7.72				.0									

SEE REFERENCE NOTES FOLLOWING STATION INDEX

# MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

HAWAII AND PACIFIC  
JULY 1978

STATION		TEMPERATURE										PRECIPITATION																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
		AVERAGE MAXIMUM	AVERAGE MINIMUM	AVERAGE	DEPARTURE FROM NORMAL	HIGHEST	DATE	LOWEST	DATE	DEGREE DAYS	NO. OF DAYS				TOTAL	DEPARTURE FROM NORMAL	GREATEST DAY	DATE	SNOW, SLEET			NO. OF DAYS																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
											MAX.		MIN.						TOTAL	MAX. DEPTH ON GROUND	DATE	1.0 OR MORE	.50 OR MORE	1.00 OR MORE																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
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SEE REFERENCE NOTES FOLLOWING STATION INDEX

# DAILY PRECIPITATION

HAWAII AND PACIFIC  
JULY 1978

STATION	TOTAL	DAY OF MONTH																															
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
HAWAII																																	
ISLAND OF KAUAI																																	
ANAOHA 1114	A	1.81	x	x	x	.16	.02	.04	.08	x	x	.08	.02	.15	.02	x	x	.39	.09	.08	.07	.18	x	x	.06	.16	.05		.07	x	x	.16	
BRIDESWOOD STA 985	A	5.10	x	x	x	2.10	.03	.09	.22	x	.23	.02	.46	.05	.04	x	x	.44	.35	.13	.08	.28	x	x	.03	.01	.07	.07	x	x	.40		
EAST LAWA 934	A	5.32	x	x	x	1.17	.02	.16	.29	x	.42	.01	.35	.16	x	x	.57	.33	.32	.06	.50	x	x	.04	.04	.15	.10	x	x	.63			
ELELE 927	A	1.02	x	x	x	.30	T	.01	T	x	.05	T	.15	.01	x	x	.10	.21	.05	T	.02	x	x	.03	.04	.02			x	x	.10		
HAUOLA 1110	A	2.62	x	x	x	.31	.05	.07	.05	x	.07	.11	.18	.02	.04	x	x	.36	.06	.02	.10	.26	x	x	.03	.38	.11	.02	x	x	.38		
HALENAHAO 1006	A	7.38	x	x	x	2.31	.05	.23	.21	x	.34	.07	.61	.12	.03	x	x	.64	.21	.37	.21	.66	x	x	.18	.09	.32	.19	x	x	.54		
HANALEI TUNNEL 1053	A	13.00	x	x	x																											13.00	
HUKIPO 945	A	.94		.90																													
ILILILUA INTAKE 1050	A	18.18	x	x	x	3.60	.36	.49	1.58	x	1.18	.25	.97	.48	.36	x	x	2.06	1.99	.39	.43	.98	x	x	.63	.08	.07	.43	.21	x	x	1.60	
INTAKE WAINIHA PC 1006	A	10.17	x	x	x	.56	x	.35	x	x	1.14	x		1.82	x	x					.78	x	x		1.32	x	.25	.42	x	x	1.02		
KANALOHULULU 1075	A	1.25		.42							.20			.03	.15			.13	.17	.04							.02	.02	.05				
KANEHA RESERVOIR 1092	A	7.28	x	x	x	.80	.14	.10	.58	x	.46	.07	.36	.18	.16	x	x	.86	.36	.10	.34	.62	x	x	.14	.37	.12	.28	.32	x	x	.92	
KEKAHA 944	A	2.16	x	x	x	.20	.02	.02	.03	x	.04	.20	.07	.09	.03	x	x	.21	.23	.09	.21		x	x	.02	.32					.36		
KILAUEA 1134	A	5.51	.17	.35	.21	.07	.36		.44	.08	.28	.03	.10	.21	.28	.43		.26	.25	.08	.12	.40	.09		.20	.27	.06	.19	.40	.15		.03	
KILAUEA POINT 1133	A	3.65	.08	.08	.08	.03	.07	.15	.18	.09	.01	x	.13	.18	.12	.10	.56	.24	.12	.46	.01	.06	.15	.03		.11	.04	.13	x	.18	.14	.04	
KOLO 1033	A	.31		.27																													
KOLOA 936	A	6.32	x	x	x	1.87	.10	.05	.24	x	.48	.02	.35	.06	.02	x	x	.69	.34	.23	.17	.53	x	x	.10	.08	.02	.21	.17	x	x	.61	
KOLOA LN (MOK) 940.1	A	1.06	.03	.28	x	.33	.08	.01			.02	.06	.26					.11	.05	.16	.05	.11	.20								.16		
KOLOA MAUKA 994	A	8.03	x	x	x	3.41	.05	x	x	x	1.91	.26	x	x	x	x	x	1.35	.15	x			x	x	.90	x	x	x	x	x	x	x	
KOZULU 935	A	2.77	x	x	x	.62	.02	.02	.01	x	.12	.05	.36	.10	.01	x	x	.44	.17	.10	.07	.14				.01	.10	.03	x	x	.40		
LIHUE VARIETY ST 10621	A	6.33	x	x	x	1.80	.09	.18	.35	x	.15	.27	.10	.13	.04	x	x	.72	.40	.12	.14	.63	x	x	.20	.08	.04	.29	.10	x	x	.50	
LIHUE 1020	A	3.44	x	x	x	1.03	.12				.20	.17	.11	.07	.04	x	x	.34	.32	.08	.13	.29	x	x	.04	.11	.13	.02	x	x	.24		
LIHUE WSD AP 1020.1	A	2.74	.09	.60	T	T	T	T	.03	.13	T	.21	.09	T	.06	.08		.15	.07	.28	.07	.21	.03		.01	.06	.03	.10	.10	.11	.10	.01	
MAKAOLEI 985	A	.42		.27		.01					.01			.03				.01															
MAKA 1026	A	.40		.34																													
MAKAII LPR CROSS 1083	A	2.35		.38		.08					.23	.08				.08		.31	.31	.15		.15			.08								
MOLAA 1145	A	1.89	x	x	x	.83	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	.53	x	x	x	x	x	x	.53	
MOUNT WAILALEALE 1047	A	.35		.35																													
NIU RIDGE 1035	A	.35		.35																													
N WAILUA DITCH 1051	A	19.33	x	x	x	4.86	2.23	.50	1.62	x	1.43	.16	.79	.54	.30	x	x	1.60	.50	.49	.38	.66	x	x	.58	.10	.15	.37	.27	x	x	1.80	
N WAILUA RIVER 1055	A	15.20	x	x	x																		x	x	x	x	x	x	x	x	x	15.20	
PA WAINIHA 1115	A	6.54	x	x	x	.37	.10	.17	1.09	x	.04	.02	.41	.01	.01	x	x	.98	.61	.23	.11	.34	x	x	.14	.11	.04	.13	.17	x	x	1.50	
PRINCEVILLE RANCH 1117	A	6.16	x	x	x	.66			.56	x	.22	.15	.37	.07	.04	x	x	1.33	.37	.16	.16	.31	x	x	.10	.08	.21	.18	x	x	.68		
PUEHU RIDGE 1040	A	1.18		.80										.06				.25														.07	
PUNI 1013	A	1.75	x	x	x	.55	.07	.07	.04	x	.04	.01	.10	.15	.30	x	x	.20	.10	.14	.05	.10				.04			.03	x	x	.21	
WAILUA 930	A	1.71	x	x	x	.31	.01	.01	.02	x	.05	.01	.27	.02	T	x	x	.20	.23	.11	.02	.12				.19	.06	.04	.29	.10	x	.20	
WAILUA LOWER 1054	A	13.14	.22	2.48	.17	.19	.25	.51	.75	.43	.06	.27	.26	.74	.46	.17	.60	.46	.13	.81	.56	.22	.89	.06	.13	.11	.15	.06	.46	.34	.56	.50	.14
WAILUA UPPER 1052	A	15.03	.15	2.85	.40	.10	.40	.45	1.48	.61	.06	.36	.23	1.02	.52	.18	.75	.49	.32	1.01	.42	.38	.98	.08	.10	.15	.12	.04	.54	.13	.84	.54	.13
WAILUA 943	A	.30		.25														.05															
WAILUA KAI 1065	A	2.81	x	x	x	.84		.04	.02	x	.05		.23	.04	x	x	x	.35	.20	.09	.05	.40	x	x	.04	.12	.03	.05	.12	x	x	.14	
WAILUA 947	A	.60		.60																													
WEST LAWA 931	A	3.15	x	x	x	.82	.02	.03	.05	x	.22	.02	.34	.07	x	x	x	.56	.18	.20	.06	.18	x	x	.02	T	.04	.07	x	x	.28		
ISLAND OF OAHU																																	
ALPHA STADIUM-HALAWA	A	.14				.01												.01	.01	.10												.01	
BERETANIA PUMPING STA B Y U LAKE 803.1	A	.76		.50		.01	T		T		T	.01						.03	.05	.07		.02			T				.01	T		.05	
CAMPBELL AND PK 702.5	A	1.32	.01	.24	T		T	.05	T	T	.06	.03	.01	.03	T	T	T	T	.22	.13	.03	T	T	.03	.02	T	.07	.05	.03	.24		.02	
COCKBURN ISLAND 840.1	A	.10																															
EWA PLANTATION 741	A	.17	x	x	.06	x	.01					.02						x	.01	.08												.01	
HONOLULU OBSERV 702.2	A	.23		.05										.02				.01	.15														
HONOLULU WSD 703 AP	A	.20	T	.08	T	.02	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	
KAEHA POINT 841.3	A	.20	x	x	x	x	x	.08	x	x	x	x	x	x	x	x	x	x	.16	.03	x	x	x	x	x	x	.10	x	x	x	x	x	
KAHANA 883	A	33.40	x	6.56	6.00	x	x	x	x	x	9.16	x	.06	x	x	x	x	3.15	x	.16	.03	x	x	x	x	4.46	x	x	x	x	x	x	4.07
KALINHI RES SITE 777	A	7.50	.36	.64	.28	.66	.14	1.68	.12	.06	.32	.06	.08	.06	.02			.32	.06	.38	.20	.20	.10	.02	.10	.60	.54	.08	.12	.18	.06	.06	
KANALOHULU 773	A	2.15	x	x	.34	.15	x	.38	.06	.15	x	x	.05	.25	.04	.03	.01	x	.18	.25		.04	.13	x	x	.15	.03	.03				.06	
KAPAHAPA 773	A	.12							.01					T			.01															.03	
KEMED CAMP 855	A	1.22	x	x	.20	.05	T		.05	T	.05	T		.05	x	x	x	.08	.15	T		T			.50	T	.0						

# DAILY PRECIPITATION

HAWAII AND PACIFIC  
JULY 1978

STATION		TOTAL	DAY OF MONTH																														
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
HAWAII																																	
WAIKAEKAU 685																																	
A	.04	x	x	x	.04																												
ISLAND OF MAUI																																	
AULAHU 252																																	
A	1.25	x	x	x	x	1.25	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	
A	14.50	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	14.50	
A	3.10	.18	.09	.90	.26						.02	.16					.01	.32	.20	.39	.08	.28				.02	.11	.02			.06		
A	.37	x	x	x	.37	x											x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	
A	1.87	.12	.05	T	.42	1.19	T											T	.03	T						.04	.02						
HALEKALA 423																																	
A	1.44	x	.02	.09	.18	.24				.04	.12	.01				x	.12	.19	.12	.03	.19				.02			.02	.31	.03	.04	.14	.03
A	4.92	.02	.15	.01	.16	.15	.38	.68	.17	.09	.14	.08	.29	.04		.05	.58	.36	.63	.09	.28	.02			.11	.01	.45	.08	.16	.06	.25	.06	
A	5.09	.04	.61	.10	.03	.03	.90	.51	.07	.18	.03	.04	.14	.14	.09		.16	.33	.39	.10													
A	1.99	x	x	x	x	x	x	x	x	x	1.42	x	x	x	x	x	x	.04	x	x	x	x	x	x	x	x	.53	x	x	x	x	x	
A	9.00	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	9.00	
HONOKOHU 493																																	
A	2.58	.05	x	.10	.08	.02	.10	.21	.03	x	.12	.03	.25	.18	.03	x	.18	.15	.35	.08	.12		.02		.04	.06	.10	.12	.03	.05		.08	
A	2.12	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x		
A	8.80	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	8.80	
KAHOLA INTAKE 374																																	
A	1.65	x	x	x	x	.01	.06	x	x	x	x	x	x	x	x	x	x	x	.06	.03	x	x	x	x	x	x	x	x	x	x	x	2.50	
A	.40	x	x	T	T	T	.29				T	.01	.01			T	.01	.06	.02	T	T				T	T	T	T	T	T	T		
A	8.82	x	x	x	x	x	x	1.79	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	8.82	
A	11.95	x	x	1.00	x	1.04	1.08	x	.57	.17	.58	.25	.01	x	.62	.68	1.29	.30	.05	x	x	x	x	.12	.25	.85	.38	.12	x	x	x	.80	
A	1.04	x	x	x	x	.97	x	x	x	x	x	.28	x	x	x	x	.28	x	x	x	x	x	x	x	x	x	.12	x	x	x	x		
A	.26	x	x	x	.02	.19					T					T	.01	T	T	T					.03								
KEANAE 346																																	
A	22.80	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	22.80	
KEANAE BEACH 260.2																																	
A	.04	x	x	x	x	x	.02									x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x		
KIHEI 311																																	
A	.06	x	x	T	.02	.06										x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x		
KIPAHULU 258																																	
A	6.00	.35	.20	.16	.17	.21	.22	.45	.35	.26	.52	.43	.15	.09		.20	.28	.52	.10	.20			.22	.15	.12	.26	.34					.05	
A	40.00	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	40.00	
KULA SANATORIUM 267																																	
A	.25	x	x	x	x	x	.25									x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x		
A	.18	x	x	x	x	.16	.02									x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x		
LAHAINA 361																																	
A	1.54	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x		
A	.00	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x		
A	15.90	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	15.90	
MAHINAHINA 466																																	
A	1.36	x	.12	.12	.20	.15					.15					x	.14	.15	.33	x	x	x	x	x	x	x	x	x	x	x	x		
A	6.70	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	6.70	
A	2.56	x	x	.08	x	x	x	x	x	x	.65	x	x	x	x	x	.35	x	x	x	x	x	x	.77	x	x	x	x	x	x	x		
A	5.51	x	x	x	2.10	x	x	x	x	x	1.78	x	x	x	x	x	x	.92	x	x	x	x	x	x	x	.71	x	x	x	x	x	x	
A	.00																																
OLAHU 332																																	
A	.31	x	1.15	1.06	x	5.50	x	1.35	x	3.10	.15	x	.68	.88	x	2.23	.60	x	x	.44	x	x	1.60	.30	x	x	x	x	x	x	x		
A	1.44	.01	x	.02	.13	.95	x	.01	.25				.26	.14	.21	.02	.05	x	x	x	x	x	x	x	x	x	x	x	x	x	x		
A	1.50	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	1.50	
A	.11	x	x	x	x	.05	.06	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x		
A	.60	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	.60	
PULOHAKA 2 343																																	
A	42.90	x	x	18.40	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	24.50	
PUNENE 386																																	
A	.22	x	x	x	x	x	.20									x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x		
A	.52	x	x	.01	.03	.25					.04					.01	.08	.07	.01	.01													
A	.00	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x		
A	2.60	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	2.60	
UKUPEHANE 301																																	
A	.00	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x		
ULUPALAKA RANCH 250																																	
A	.32	x	x	.03	.07											x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x		
A	.00	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x		
A	.00	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x		
A	.93	x	x	.12	.01	.08	.45				.05					.20	.14	.03	.03				.20	.01									
A	1.52	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x		
WAIKAIHI 449																																	
A	18.40	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	18.40	
A	.40	x	x	x	x	.11	.20									.04	.03	.03	.03	.01													
A	.48	x	x	x	x	.15	.19									.04	.07	.01	.01														
A	.																																

# DAILY PRECIPITATION

HAWAII AND PACIFIC  
JULY  
1978

STATION	TOTAL	DAY OF MONTH																														
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
HAWAII																																
NAP00P00 28	A	3.10	x	x	.15	x	x	x	x	x	1.09	x	x	x	x	x	x	.91	x	x	x	x	x	.35	x	x	x	x	x	x	.60	
OKALA 223		13.50	.05	.06	.30	.15	.32	1.41	2.80	.16	.16	.20	.24	1.38	.46	.30	.01	.10	.02	.22	.50	.52	2.35	.14	.05	.02	.20	.13	.38	.33	.47	.07
OPHIJHALE 2 24.1		4.71	.12	.28	.12	.14	x	x	.54	.85	.96	.02	.43	.16	.01	.12	.02	T	x	x	x	.06	.01	.66	T	.05	.16	T	T	x	x	
ORCHID LAND EST 91.5	A	15.37	x	x	x	x	x	8.20	x	x	x	x	x	x	x	2.91	x	x	x	x	x	x	3.50	x	x	x	x	x	x	x	x	
PARAHU 217		5.68	.06	.05	.01	.47	2.08	.08	.02	.01	.08	.21	.59	.40	.04	x	x	.01	.05	.47	.22	.20	.01	.06	.05	.11	.12	.17	.12	x	x	
PARAJILO 221		8.82	.03	.11	.04	.36	1.57	.68	.03	.03	.14	.31	1.39	.43	.09	T	.05	.03	.13	.59	.61	.94	.03	.02	.01	.05	T	.09	.62	.31	.17	.01
PAHALA 21	A	1.35	x	x	1.10	.20	x	x	.80	x	x	.88	.18	.71	.33	.22	x	x	.36	.33	.38	.66	1.10	x	T	.20	.25	.15	.14	.11	x	x
PAHOLA 65		14.89	x	x	1.12	x	.95	4.40	.80	x	x	.88	.18	.71	.33	.22	x	x	.36	.33	.38	.66	1.10	x	T	.20	.25	.15	.14	.11	x	x
PAPAIKOU 144.1		15.86	x	x	1.71	x	1.70	3.20	1.32	x	x	.81	.28	.48	.17	.48	x	x	.32	.17	.49	.39	1.71	x	x	.41	.07	.02	.31	.20	x	x
PAPAIKOU PAUKA 140.1	A	27.91	x	x	2.30	x	2.20	4.20	2.27	x	x	1.96	.47	1.27	1.52	.19	x	x	.57	.25	1.07	.65	3.15	x	x	1.59	.07	.33	.50	.75	x	x
PIIHONUA 89	A	38.20	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	38.20	
PUKOHOLA HETAU 98.1		.00	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	2.00	
PUU LEHUA 73	A	2.00	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	
SOUTH KONA 2.31		1.01	-	-	.09	-	.15	-	-	-	.21	-	-	-	-	.08	-	-	-	-	-	-	-	.48	-	-	-	-	-	-	-	-
SOUTH POINT CORRAL 3	A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
UPOLU POINT USCG 159.2		2.97	.02	.02	T	.35	T	.36	.06	.03	T	.01	T	.40	.21	.10		.01	.02	.10	.10	.08	.75	.17	T	.03	.05	T	.05	T	.05	
WAIKAKA SCD 88.2		26.90	.16	.23	.65	1.80	.31	6.20	.91	1.17	.12	.65	.50	1.46	.97	.56	.22	.08	.11	.21	1.11	.81	2.06	1.15	.37	.02	.11	.19	.31	1.29	1.28	1.18
WAIKALOA-BOIS CAS 95.8		.29					.22														x	x	x	x	.07							.71

SEE REFERENCE NOTES FOLLOWING STATION INDEX



# DAILY PRECIPITATION

HAWAII AND PACIFIC  
JULY  
1978

STATION	TOTAL	DAY OF MONTH																															
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
PACIFIC																																	
* * *																																	
EAST OF 180TH																																	
MERIDIAN																																	
ATU U	5.45	.33	1.07	.04								.08		.08	.32						.02	.17	.24	.35	1.74	.14		.03	.31		.02	.47	.04
CANTON ISLAND	.55	.04	*	*		.06										*	.26	.06														.03	
FALEASAO VILLAGE	10.56	2.98	2.14	1.71	.46	.56	.17	.30	.75	1.08	.96			.09	T	.09	.15	.62	2.42	2.61	.38			.06	.84	.52	.11	.39	.07	.06	T		
JOHNSTON IS WSO AP	2.01	T			.01	.01			.01	T		.01		T	T	.83	T	.04	.30						.40		.11	.25	T	T			.04
LEONE																																	
FRENCH FRIGATE SHOALS	2.54			.50	.31	.12					.02	.25		.03	.14		.10	.11	.03	.17	.14	.36	.15		.03		.02			.04	.02		
HIGWAY SAND ISLAND	2.99	.07	.34	.05	.01		.03	.09		.03	.76	.01	.01			.05				T	T			.03	.10	.13	.03	.18	1.15				
PAGO PAGO WSO AP	3.48	.32	.64	.24					.22		T	T		.02	.23	T	.03	T	T			.03	.18	.59	.70	T	.01	.03	.05	T	T	.19	T
* * *																																	
WESTERN PACIFIC ISL.																																	
NORTH OF 12 N																																	
AGAT	9.49	.67	.48		1.44	.18	.70	.20	.39	.40		.30	.35		.42	.33	2.01	.30	.11				.72	.02					.01	.16	.38		
ANDERSEN AFB GUAM	9.50	.73	T	.34	.82	.09		.04	.17	.35				.02	1.23	.52	.91	.39	T	.03	.02	1.95	.62				.58	.24	.01		.27	.11	.06
CLARK AFB LUZON	10.17		T	.01	1.21	.01	T	.48	.13	.12	.19	.66	T	.10	.16	.39	.97	.14	.26	.49	.19	.28	.13	.34	.14	.16	1.21	1.41	.63	.21	.07	.07	
DEDEBO	7.73	1.15	.01	.17	.53	.13	.05		.09	.04			.65		.04	1.40	1.12	.60	.07				.13	.14	.04			.62	.53	.01	.02	.19	T
GUAM NAS																																	
GUAM WSO	8.91	.64	.01	.20	1.34	.16		.35	.36		T	.60		.23	2.31	.39	.74	.24	.03		.11	.12	.23	.31				.18	.07	.14	.11	.02	.02
INARAJAN AG STN	7.42	.50	.02	.02	1.85	.18		.12	.33		.25				.43	1.51	.70	.45	.02	.17		.29	.06							.10	.34	.08	
INARAJAN - NASA																																	
MANGILAO	8.59	.15		.16	.92	.11			.03			.02		.05	1.05	1.60	1.00	.01		.04	.17		.17				.10	.79	.03		.19		
QBTA																																	
SAIPAN LGRAH																																	
UMATAO																																	
WAKE ISLAND WSO AP	2.57	T	.07	.01	.02	T	.15	.07	.17	.06	.01	.08	.09	.03	.03	.01	.01		.01	.05	.01	.46	.86	.02	T	T	T	.11	.04	T	.01	.19	
YIGO	10.02		.96	.10	.23	.69				.02				.20	.30	1.59	.87	.44	.40			2.00	.97					.40	.05		.20	.30	.30
* * *																																	
CAROLINE AND																																	
MARSHALL ISLANDS																																	
ENEMYETAK																																	
FALALBP I ULITHI ATOLL																																	
KABINGMARANGI ATOLL																																	
KWJRO WSO	9.13	.39	2.36	.04	.29	T		.01	.14	.31	.65	.10	.64	.03			.50	.40					.36				.69	.03	.44	.21	.05		.30
KWJALEIN MISSILE RMN	8.52	.91	.99	.01	1.03	.34	T	T	.15	.39	.54	.25	T	.23	.33	T	.16	.11	T	.91	.15	.25	.30	.02	.10		T	.02	.03	T	.29	.94	.07
LELE I KOSRAE																																	
MAJURO WSO AP	16.25	.66	.10	T	.35	.41	2.25	1.18	.08	3.02	.22	T	2.26	.33	1.26		.26	.05	.06	.09	.48	.01		.02	.15	.05	1.56		.20	.77	.53	.10	
METALANIM	8.59	.49		T			.20	.10	.10	1.33	.10	T					.34	.35	1.38				T	.90		T	1.90	.75	.20	T	T	.45	
NIKIL ATOLL																																	
NGASANG-BABELTHUAP																																	
PONASE WSO	10.28	.15	.20		.01	1.72			.22	.33			2.73	.13		T	.08	.10	1.56	.26		1.34	T	.24	.15	.59	.08	.03	.02		.25	T	
SATAWAN ATOLL																																	
TRUK MOEN I WSO AP	8.40	.36	.06				.04	T		1.26	.16		.18	1.17	T	.06	.06	1.01	.87	.16	.82	.53	.13	T		T	.05	.40	.02	.06		1.00	
WOLEAI ATOLL		.05		.02	.18				.01					1.32	.29		.46						1.40	.01			.22			.01		.29	
YAP WSO AP	8.67	.66		.29	T	.27	.04	.11	3.88	1.00	.01	.07	.15	.02	T	.57	.04	.03					.05	.62		.03	.17	.09	.10	.33	.11	.03	

SEE REFERENCE NOTES FOLLOWING STATION INDEX

# DAILY TEMPERATURES

HAWAII AND PACIFIC  
JULY 1978

STATION		DAY OF MONTH																															AVERAGE	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
HAWAII																																		
ISLAND OF KAUAI																																		
KANALOHULU 1075	MAX MIN	74 58	76 59	73 59	73 58	73 57	75 57	66 60	75 57	74 57	70 56	67 58	73 56	71 58	70 57	73 57	70 57	69 57	72 56	74 59	70 59	66 59	75 58	72 58	78 55	72 54	72 56	71 56	66 56	70 58	73 58	72 57	71.8 57.3	
KILAUEA POINT 1133	MAX MIN	83 73	84 73	84 72	85 74	84 73	85 73	84 73	80 73	86 73	83 71	83 68	83 70	84 71	85 70	83 69	84 69	83 66	83 66	84 69	85 64	85 73	84 73	82 74	86 72	85 72	84 76	85 73	84 72	84 73	84 73	84.0 71.6		
KOLOA LN (MAK) 940.1	MAX MIN	85 73	87 77	84 76	84 74	84 78	85 74	85 76	85 78	86 74	87 79	85 72	84 79	85 71	85 72	85 72	85 72	85 75	85 72	85 71	86 71	86 74	86 74	86 70	86 74	86 74	86 74	86 74	86 74	86 74	86 74	85.8 74.5		
LIHUE WSO AP 1020.1	MAX MIN	83 75	82 74	85 75	84 76	84 75	81 72	82 75	82 72	80 71	83 72	82 68	82 72	85 73	86 74	85 72	85 71	86 71	86 70	86 73	84 72	84 74	81 77	85 73	86 74	87 71	87 74	87 72	85 71	85 73	87 75	85 73	84.1 73.0	
NIU RIDGE 1035	MAX MIN				86 64	88 64	88 65	89 68			88 65	89 66	84 66	87 68	85 65		88 64	86 66	89 67	90 67	89 68				89 66	89 66	85 68	91 68	88 66			88 64		
WAIAMI LOWER 1054	MAX MIN	77 67	78 68	77 66	78 68	77 67	77 67	78 69	78 70	77 67	74 66	75 66	74 67	75 68	76 67	75 66	76 65	76 67	75 66	77 68	76 68	75 69	76 67	73 67	78 67	79 67	78 67	75 68	74 68	70 66	70 65	72 68	75.5 67.3	
ISLAND OF OAHU																																		
ALOHA STADIUM-HALAWA	MAX MIN	86 73	85 73	85 74	85 73	85 73	84 74	85 74			87 73	86 72	86 72	85 74	85 73	85 73	81 71	85 71	85 72	84 74	84 73	84 73	85 72	86 72	85 72	85 72	87 72	87 72	87 74	85 74		86 73	85.2 72.8	
B Y U LAIE 903.1	MAX MIN	84 68	84 68	88 69	86 68	85 68	85 74	83 75	85 73	85 72	89 72	85 72	84 73	83 73	84 72	84 72	84 71	84 75	84 72	84 73	85 72	85 73	83 73	84 70	84 70	85 68	85 70	86 70	86 72	85 72	85 74	85 73	84.8 71.5	
HONOLULU OBSERV 702.2	MAX MIN	88 70	90 71	89 73	89 71	89 71	89 72	90 74	88 74	90 69	89 72	89 71	88 69	88 75	88 69	88 69	89 68	88 69	89 69	87 68	90 72	89 73	89 74	89 74	90 71	90 71	90 74	91 72	87 73	88 72	90 69	90 70	89.0 71.2	
HONOLULU WSO 703 AP	MAX MIN	86 73	86 72	87 73	86 72	86 73	86 74	86 74	86 72	85 72	86 72	85 71	86 72	85 73	85 71	85 72	85 70	85 69	85 71	85 73	85 71	85 72	85 72	85 71	85 70	85 71	85 74	85 73	85 71	85 71	85 72	86.0 71.9		
KANEHE MAUKA 781	MAX MIN	80 74	82 73	82 73	81 73	80 72	81 72	79 73	80 74	80 74	80 70	81 71	79 70	80 73	81 72	82 71	81 70	82 71	82 70	82 73	82 73	81 73	80 74	79 73	81 74	81 73	82 74	81 71	82 72	82 73	82 72	80.7 72.5		
MANDY LYON ARBORETUM	MAX MIN	78 69	83 68	81 69	78 68	75 68	81 70	78 70	81 69	80 69	77 68	80 68	79 68	78 68	79 68	78 69	78 68	75 67	80 67	80 68	81 68	80 68	81 68	80 69	83 69	81 69	86 69	84 69	83 69	81 68	77 68	77 69	78 68	79.6 68.7
OPAEULA 870	MAX MIN	80 70	83 67	80 70	80 69	80 68	80 68	80 68	83 71	80 71	80 69	79 68	80 68	79 67	80 67	80 67	80 68	80 68	80 68	80 67	80 67	80 67	80 67	80 67	80 67	80 67	80 67	80 67	80 67	80 67	80 67	80.1 68.4		
WAIALEE 896.3	MAX MIN		83 66	83 66	83 66	82 66	83 66	82 66	83 66	83 66	83 66	83 66	83 66	83 66	83 66	83 66	83 66	83 66	83 66	83 66	83 66	83 66	83 66	83 66	83 66	83 66	83 66	83 66	83 66	83 66	83 66	83.2 71.5		
WAIALUA 847	MAX MIN	82 66	86 68	84 66	84 68	78 64	86 68	92 72	84 72	84 66	84 68	86 68	85 68	85 67	82 64	82 64	82 64	82 64	82 64	82 64	82 64	82 64	82 64	82 64	82 64	82 64	82 64	82 64	82 64	82 64	82 64	84.2 67.3		
WAIKIKI 717.2	MAX MIN	85 73	88 73	87 73	88 73	86 73	86 73	87 74	87 74	87 72	87 72	87 72	88 76	88 76	87 76	88 76	88 76	88 76	88 76	88 76	88 76	88 76	88 76	88 76	88 76	88 76	88 76	88 76	88 76	88 76	88 76	87.6 73.7		
ISLAND OF MOLOKAI																																		
MOLOKAI AP 524	MAX MIN	87 65	88 72	88 67	88 75	87 72	85 72	89 69	89 71	88 71	85 76	86 71	86 71	85 72	85 68	85 70	85 69	85 69	87 67	86 69	85 71	85 72	85 72	85 66	88 66	87 70	86 68	90 78	90 60	86 72	86 71	88 71	88 70	86.7 70.0
ISLAND OF LANAI																																		
LANAI AIRPORT 656	MAX MIN	82 66	84 66	84 64	84 68	83 66	83 67	84 68	81 67	83 65	83 64	82 62	80 67	83 68	82 64	82 66	83 63	83 61	83 66	80 63	84 62	85 68	84 64	84 67	83 66	80 62	84 68	84 68	83 67	83 67	83 66	83 65	82.9 65.5	
LANAI CITY 672	MAX MIN		77 68	76 68	76 68	76 69	77 68	77 68	77 66	76 66	77 64	77 64	74 67	78 65	78 64	76 65	77 63	77 67	77 67	74 68	77 67	77 68	76 68	78 66	76 68	77 68	80 68	78 68	74 67	74 67	78 66	77 66	76.5 66.8	
ISLAND OF MAUI																																		
HALEAKALA RS 338	MAX MIN	70 51	66 47	67 48	65 44	63 44	67 51	65 49	63 51	66 47	68 51	71 52	66 45	67 53	70 47	66 45	65 45	64 46	65 44	66 50	68 51	65 52	69 47	69 52	69 52	68 49	68 49	70 56	73 50	66 46	64 41	64 42	67.0 48.3	
HANA AIRPORT 355	MAX MIN	82 70	80 72	84 72	81 72	81 73	83 73	83 72	84 76	82 74	83 73	82 71	80 72	83 73	83 68	83 69	83 70	83 71	79 70	81 71	80 74	81 73	83 71	82 68	85 73	83 74	84 72	82 73	82 70	84 70	83 69	82.4 71.5		
KANAPALI AP 453.1	MAX MIN	85 77	85 71	86 70	83 71	85 67	86 72	86 73	79 66	86 70	85 72	85 70	82 70	85 68	83 70	85 70	85 69	85 70	83 69	87 72	87 72	87 70	86 68	85 67	85 68	83 71	87 72	87 72	86 72	85 72	88 71	86 72	85.0 70.4	
KAMULUI WSO 398 AP	MAX MIN	90 70	88 75	86 74	89 75	89 75	86 75	90 74	88 75	88 68	87 74	84 73	87 74	88 75	88 73	88 73	88 72	86 72	86 74	87 75	85 75	86 75	86 69	88 71	88 71	86 76	86 76	91 71	89 70	87 76	88 74	87 73	87.5 73.3	
KAILUA 446	MAX MIN	81 72	81 72	80 72	79 72	82 73	83 73	77 69	77 68	77 68	78 68	77 67	75 68	77 67	79 68	79 67	79 68	78 67	74 68	77 68	77 65	75 65	79 69	79 68	78 72	78 72	82 72	82 72	81 68				78.4 69.7	
KEAWAKAPU BEACH 260.2	MAX MIN	91 69	89 71	90 67	91 69	91 66	89 66	90 66	90 66	87 66	93 66	92 67	88 67	89 67	90 66	88 66	91 65	92 66				93 70	85 66	88 67	92 69	86 69	90 71	90 72	93 70	89 68	92 66	89 65	89.9 67.9	
KULA SANATORIUM 267	MAX MIN	73 57	75 60	75 58	74 58	75 57	76 61	75 61	75 62	76 57	73 56	74 56	75 58	72 59	73 55	75 56	76 57	74 57	76 58	76 59	75 59	75 59	76 59											

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STATION	DAY OF MONTH																															AVERAGE	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
HAWAII																																	
• • •																																	
ISLAND OF HAWAII																																	
HAWAII VOLCNS NP HD 54	MAX MIN	73 55	74 57	73 55	70 57	67 56	72 61	68 59	74 58	65 56	67 55	68 54	71 57	72 56	67 54	69 54	69 54	67 54	71 56	72 58	69 58	66 59	72 59	70 54	72 56	76 55	72 59	74 57	70 57	66 58	65 56	63 54	69.8 56.4
HILO WSO AP 87	MAX MIN	86 69	85 70	82 70	84 70	83 71	85 73	85 71	84 71	83 70	83 71	84 69	84 71	80 70	83 70	85 69	82 68	88 69	85 72	84 73	80 72	84 73	82 72	86 66	87 68	88 73	85 74	82 74	84 72	79 70	80 69	81 69	83.6 70.6
KAINALIU 73.2	MAX MIN	78 64	81 62	80 63	78 64	78 61	80 63	81 65	80 64	75 64	74 60	76 63	77 64	78 65	76 63	73 61	79 59	80 60	81 60	80 63	78 62	85 63	78 60	78 60	81 61	83 64	77 65	81 64	79 64	78 64	78 60	78 60	78.6 62.4
KAMUELA 192.2	MAX MIN				75 62	72 60	75 63	76 63			74 61	68 60	75 62	73 61	69 60		72 61	72 62	70 63	67 63					74 60	79 58	79 62	74 62	72 62				73 60
KAPOHO BEACH 93.11	MAX MIN	85 72	87 71	85 70	82 70	86 73	83 73	87 72	86 69	86 71	84 70	84 71	86 73	84 72	86 69	87 70	87 67		85 71	84 72	79 73	89 74	86 69	89 70	90 72		92 74	87 73	88 71	85 69	86 70	85.9 71.2	
KONA (KAILUA) 68.3	MAX MIN	84 75	87 73	88 75	86 74	87 76	86 74	87 76	85 73	81 74	83 72	84 73	85 74	85 73	80 70		84 70	85 71	86 72	85 72	84 72				86 71	86 74	86 75	86 76	85 74			85 70	85.1 73.2
KULANI CAMP 79	MAX MIN	68 46		62 59	63 53	60 54	66 56	67 55	66 55	60 52	62 51	63 51	66 55	67 54	63 55	65 55	64 49	73 53	66 54	69 55		62 56	69 50	65 47	71 49	70 55	69 55	69 49		65 54	62 52	60 51	65.4 52.8
MAUNA KEA OBS 111.2	MAX MIN	54 34	54 33	51 33	48 29	50 30	37 29	42 26	46 27	49 28	46 25	48 30	45 27	40 31	44 28	62 28	63 35	75 34	52 32	50 28	35 27	48 26	61 28	49 33	61 30	55 28	48 31	50 33	50 32	58 31	60 33	51.0 29.9	
MAUNA LOA SLOPE OBS	MAX MIN	57 37	55 35	56 38	53 37	56 36	51 38	52 38	52 37	56 37	58 39	49 36	53 38	50 36	51 35	52 36	57 39	58 38	55 36	45 36	54 37	55 37	59 38	52 35	52 38	52 39	57 39	54 38	55 40	55 39	56 42	54.0 37.5	
MOUNTAIN VIEW 91	MAX MIN	76 62	78 64	78 63	74 63	76 64	73 64	73 66	73 64	74 66	77 64	77 63	77 63	71 64	74 59	73 59	79 61	79 64	77 65	73 64	70 66	70 64	69 66	77 64	80 66	77 65	80 66	74 65	74 62	71 64	71 63	74.9 63.0	
NAALEHU 14	MAX MIN	77 66	77 67	76 66	82 67	76 66	83 67	76 68	79 67	74 65	78 66	79 66	80 66	80 69	77 64	75 62	75 63	80 64	80 65	82 67	76 69	76 66	74 63	81 62	80 69	80 70	82 66	82 66	75 64	75 65	79 65	78.3 65.8	
OOKALA 223	MAX MIN	80 70	80 69	80 69	78 68	80 68	76 72	78 71	80 69	79 65	72 68	78 67	78 68	79 68	80 71	80 66	80 66	80 70	77 69	72 68	72 68	78 68	77 67	78 67	80 67	81 66	80 67	80 67	79 69	80 67	78 63	79 63	78.5 68.1
OPIHIHOLE 2 24.1	MAX MIN	83 64	82 67	81 67	82 67	81 62	82 63	81 65	78 66	77 68	78 64	80 64	77 65	78 67	75 63	79 60	80 61	82 60	83 62	77 65	80 63	83 61	84 62	83 68	83 69	79 67	82 68	81 68	83 66	83 65	80.5 64.5		
PUUKOHOLA HEIAU 98.1	MAX MIN	91 71	91 61	92 62	91 61	90 57	92 64	91 62	92 63	89 63	93 61	93 62	90 62	89 63	90 69	91 70	92 70	90 70	91 70	90 72	91 71	90 70	91 69	90 70	91 69	89 70	91 70	91 70	92 70	91 70	90 69	90.8 70.8	
SOUTH KONA 2.31	MAX MIN	80 59	83 61	81 62	77 61	76 57	80 64	77 62	82 63	78 59	78 61	78 58	78 62	80 63	79 62	78 57	77 59	75 58	79 56	79 59	77 62	74 65	81 64	79 57	78 60	77 63	83 61	85 60	83 62	77 61	79 59	78 59	78.9 60.5
UPOLU POINT USCG 159.2	MAX MIN	85 71	86 70	85 71	83 70	84 71	84 71	82 70	84 71	83 71	84 70	83 71	83 70	84 70	83 71	84 71	85 70	84 69	84 71	85 69	84 71	77 70	79 69	83 70	83 71	85 70	82 70	85 71	84 72	85 69	86 70	86 64	83.6 70.2

SEE REFERENCE NOTES FOLLOWING STATION INDEX

# DAILY TEMPERATURES

HAWAII AND PACIFIC  
JULY  
1978

STATION		DAY OF MONTH																															AVERAGE
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
PACIFIC																																	
• • •																																	
EAST OF 180TH MERIDIAN																																	
CANTON ISLAND	MAX MIN	89 74			89 79	88 80	90 81	87 80	89 80		90 75	90 75	88 75	88 75	88 74		90 78	88 77		90 81	90 78	89 79	87 77		89 75	90 79	89 74	90 80	90 81	90 73	89 75	89.0 77.3	
JOHNSTON IS WSO AP	MAX MIN	84 79	84 79	84 79	85 79	84 77	84 78	85 80	86 80	85 80	86 80	84 78	85 78	83 78	84 79	84 78	84 75	84 79	85 80	86 79	86 78	83 75	85 79	85 76	85 77	84 80	84 80	85 79	85 80	85 78	85 80	84.6 78.6	
LEONE	MAX MIN																																
FRENCH FRIGATE SHOALS	MAX MIN	83 73	85 72	85 67	85 67	83 72	81 74	85 71	84 70	85 71	83 71	85 69	85 72	84 69	85 71	84 73	85 72	85 67	85 67	85 70	83 69	86 72	82 74	83 73	85 74	84 73	84 74	86 68	84 71	86 71	86 74	84.4 70.8	
MIDWAY SAND ISLAND	MAX MIN	81 71	78 71	82 72	81 72	84 72	83 72	83 74	84 74	82 72	84 74	85 73	85 75	86 76	85 75	85 75	85 74	87 74	89 75	87 72	87 78	86 77	87 74	87 73	87 75	85 71	80 72	86 75	85 77	86 71	86 77	84.5 73.7	
PAGO PAGO WSO AP	MAX MIN	83 76	83 73	81 75	83 76	83 68	84 64	83 66	84 70	85 68	84 70	82 69	82 75	83 74	84 71	83 77	84 77	83 79	85 79	85 76	84 74	84 77	83 73	81 74	83 77	83 77	84 77	84 77	85 77	84 78	85 76	86 73	83.6 74.2
• • •																																	
WESTERN PACIFIC ISL. NORTH OF 12° N																																	
ANDERSEN AFB GUAM	MAX MIN	84 74	84 79	84 77	82 76	84 76	86 77	84 79	85 78	86 79	84 78	85 77	86 77	90 78	87 74	82 77	83 75	88 77	87 78	87 78	84 76	82 75	83 77	85 75	85 77	84 78	84 78	86 79	84 79	85 78	82 77	86 78	84.8 77.2
CLARK AFB LUZON	MAX MIN	91 75	86 75	90 77	91 73	90 73	88 73	90 73	90 73	86 73	84 75	88 73	84 73	86 73	82 75	81 73	82 75	86 73	82 73	79 72	82 73	84 73	86 73	84 75	88 75	88 75	88 75	81 73	82 75	84 75	90 73	91 73	85.9 73.8
GUAM NAS	MAX MIN																																
GUAM WSO	MAX MIN	87 71	88 74	88 73	86 73	86 75	88 70	87 72	87 74	87 72	87 70	86 70	87 70	88 71	86 71	84 73	85 73	88 75	88 73	87 74	84 73	88 74	87 70	87 70	87 73	89 73	88 74	88 74	85 74	88 76	85 74	88 73	86.8 72.6
INARAJAN - NASA	MAX MIN																																
SAIPAN LORAN	MAX MIN																																
WAKE ISLAND WSO AP	MAX MIN	89 79	89 76	89 77	88 78	90 78	88 75	85 74	85 72	89 76	89 77	88 77	85 78	86 77	85 76	87 79	87 78	88 78	88 75	90 77	83 75	88 73	88 77	89 78	88 76	89 79	88 77	89 76	89 78	90 79	89 77	87.7 76.8	
• • •																																	
CAROLINE AND MARSHALL ISLANDS																																	
ENWETAK	MAX MIN																																
FALALOP I ULITHI ATOLL	MAX MIN																																
KAPINGAMARANGI ATOLL	MAX MIN		88 79	88 80	88 78	88 77	88 76	85 78	89 77	89 80		89 79	85 77	88 80	89 75	89 79	90 79	85 76	88 76	90 79	89 79	89 76	89 79	89 78	90 77		89 76	89 78	89 75	88 76	85 77	88.3 77.7	
KOROR WSO	MAX MIN	89 76	88 74	89 74	88 76	89 76	89 79	90 76	90 76	88 75	89 75	89 74	89 75	84 74	89 75	90 75	89 80	89 74	88 76	89 78	89 77	90 77	88 75	89 77	88 79	89 75	89 73	89 77	90 76	89 75	88 76	88.7 75.8	
KWAJALEIN MISSILE RGN	MAX MIN	87 71	87 72	87 79	89 72	87 75	88 78	87 77	86 77	87 76	85 75	87 77	88 79	87 73	86 75	84 79	87 77	87 78	88 80	87 71	86 75	87 74	88 75	88 78	88 77	88 79	85 77	87 79	89 80	86 74	86 73	87 77	87.0 76.1
LELE I KOSRAE	MAX MIN																																
MAJURO WSO AP	MAX MIN	87 75	87 76	86 77	87 76	87 74	84 74	85 74	85 75	82 72	86 75	88 78	84 74	86 73	83 71	86 77	86 74	87 76	88 76	85 75	81 75	85 76	86 76	86 76	88 74	87 76	81 74	87 75	88 79	86 75	84 74	87 75	85.6 75.1
METALANIM	MAX MIN	85 75	89 75	89 73	89 74	86 72	89 75	88 72	90 76	85 75	89 74	88 70	89 76	89 75	88 75	89 77	88 74	89 75	89 77	87 76	88 76	87 73	89 75	88 72	86 75	87 74	85 73	84 72	85 72	86 73	85 74	87.7 74.2	
PONAPE WSO	MAX MIN	90 75	85 76	90 75	90 72	90 72	90 71	90 72	91 72	88 71	90 71	89 71	91 70	90 70	89 73	91 71	91 73	90 76	87 71	87 70	86 71	90 71	89 72	90 72	90 74	89 72	81 73	91 71	90 72	89 78	90 74	89.2 72.4	
SATAWAN ATOLL	MAX MIN																																
TRUK MOEN I WSO AP	MAX MIN	89 77	88 77	89 75	91 76	89 76	88 74	89 73	88 75	90 75	88 74	90 76	89 77	88 74	90 78	90 77	89 76	89 74	88 74	85 74	88 75	88 75	89 75	89 76	90 80	90 77	90 76	87 76	90 76	89 78	88 81	88.9 75.8	
WOLEAI ATOLL	MAX MIN	89 72	89 76	90 71	86 73	86 71	90 71	86 73	87 71	90 71	88 73	89 71	88 70	92 71	86 74	90 74	88 74	89 76	87 78	90 78	89 71	89 78	90 73	86 70	91 71	90 73	91 71	86 70	91 71	90 71	88.7 72.3		
YAP WSO AP	MAX MIN	88 72	88 75	88 74	87 76	84 70	89 75	89 75	84 70	85 72	89 74	88 70	89 76	87 75	88 79	87 70	89 75	89 73	89 78	89 78	89 74	88 74	88 74	89 76	90 77	89 75	89 75	89 75	89 75	90 74	89 75	88.2 74.5	

SEE REFERENCE NOTES FOLLOWING STATION INDEX

# EVAPORATION AND WIND

HAWAII AND PACIFIC  
JULY 1978

STATION	DAY OF MONTH																															TOTAL OR AVG.	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
HAWAII																																	
ISLAND OF KAUAI																																	
LIHUE WSO AP 1020.1	EVAP	.31	.41	.35	.39	.33	.38	.17	.37	.41	.18	.32	.39	.38	.43	.30	•	.70	.33	.31	.36	.31	.34	.30	.20	.32	.31	.40	.37	.35	.32	.37	10.41
	WIND	189	174	198	215	220	212	212	201	193	111	235	236	238	218	170	•	377	270	287	228	287	279	233	171	104	159	199	224	221	218	218	6497
	MAX	86	87	87	86	85	85	84	86	86	85	82	86	86	84	86	-	85	85	86	86	85	85	85	84	88	92	86	84	85	85	85	85.6
	MIN	66	66	66	66	65	66	67	66	66	65	67	64	66	65	66	-	65	65	64	65	65	65	65	66	67	67	67	65	65	67	66	65.8
ISLAND OF OAHU																																	
HONOLULU OBSERV 702.2	EVAP	.30	.35	.30	.34	.40	.40	.30	.30	.40	.35	.42	.38	.35	.33	.33	.40	.36	.35	.33	.37	.45	.37	.37	.30	.30	.39	.36	.35	.35	.41	.45	11.16
	WIND	28	34	37	39	38	39	36	38	33	46	49	42	44	39	30	33	31	39	34	46	66	52	32	29	21	39	40	30	37	35	38	1174
	MAX	92	94	95	94	94	93	93	90	95	92	92	92	90	90	89	92	92	92	87	90	90	89	92	88	94	94	95	87	89	92	94	91.7
	MIN	70	70	69	70	71	70	71	70	69	68	68	68	69	68	68	67	69	69	69	69	69	68	67	68	72	71	71	68	68	68	68	69.0

SEE REFERENCE NOTES FOLLOWING STATION INDEX



# EVAPORATION AND WIND

HAWAII AND PACIFIC  
JULY 1976

STATION		DAY OF MONTH																															TOTAL OR AVG.	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
PACIFIC																																		
EAST OF 180TH MERIDIAN																																		
JOHNSTON IS W50 AP	EVAP	.40	.52	.37	.41	.36	.39	.32	.35	.34	.39	.43	.40	.37	.35	.23	.26	.42	.38	-	-	-	-	.46	.33	.35	.37	.45	.37	.36	.37	.31	11.558	
	WIND	218	222	221	174	199	197	178	160	234	222	200	199	189	174	208	231	216	182	-	-	-	-	129	82	170	182	232	235	224	196	196	60518	
PAGO PAGO W50 AP	EVAP	.26	.09	.20	.37	.31	.16	.15	.13	.18	.19	.19	.21	.20	.15	.59	.26	.27	.29	-	-	-	-	.03	.18	.34	.14	.18	.18	-	.12	.22	6.428	
	WIND	146	104	224	292	192	23	36	48	50	80	85	154	157	64	182	243	294	249	210	208	-	201	185	232	219	212	182	158	173	129	119	4851	
	MAX	91	92	90	90	91	87	91	90	90	88	89	89	86	87	88	85	84	87	89	89	86	86	90	89	90	86	87	88	89	89	90	88.6	
	MIN	73	75	72	72	72	60	63	62	68	62	68	68	69	67	70	72	69	71	70	72	71	71	70	71	72	73	73	75	73	74	74	70.1	
WESTERN PACIFIC ISL. NORTH OF 12 N																																		
GUAM W50	EVAP	.25	.25	.19	.23	.16	.15	.10	.24	.23	.15	.06	.28	.31	.27	.13	.14	.22	.26	.31	.13	.04	.12	.06	.22	.22	.18	.22	.39	.10	.09	.20	5.90	
	WIND	126	65	53	53	34	35	34	85	55	22	17	27	55	96	93	89	84	68	58	25	32	27	18	24	28	29	39	26	21	25	47	1490	
	MAX	90	93	91	87	85	93	87	90	92	87	86	92	93	93	85	82	88	92	90	84	83	89	86	91	93	90	94	84	87	88	92	89.3	
	MIN	70	72	72	71	71	70	72	71	71	71	71	71	72	73	72	70	71	72	72	73	71	71	71	71	71	73	73	72	72	73	72	71	71.5
CAROLINE AND MARSHALL ISLANDS																																		
YAP W50 AP	EVAP	.16	.20	.14	.09	.02	.19	.12	-	.16	.22	.21	.09	.17	.23	.17	.23	.20	.27	.18	.20	.23	.21	.11	.24	.19	.28	.22	.16	.23	.12	.16	5.588	
	WIND	71	40	29	30	45	42	31	30	65	46	44	29	45	82	126	132	105	111	68	39	29	30	44	38	40	39	50	25	35	29	20	1589	
	MAX	87	93	88	84	77	90	91	85	86	93	94	90	90	91	85	91	90	89	89	91	90	92	88	93	93	93	91	93	92	88	91	89.6	
	MIN	71	71	72	72	69	70	71	69	68	71	72	72	71	71	70	70	71	71	71	72	71	71	70	72	72	70	72	72	72	72	72	72	71.0

SEE REFERENCE NOTES FOLLOWING STATION INDEX

## STATION INDEX

HAWAII AND PACIFIC  
JULY 1978

STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES				OBSERVER
								TEMP.	PRECIP.	EVAP.	SPECIAL (SEE NOTES)	
HAWAII												
ISLAND OF KAUAI												
ALEXANDER RESV 983	0140	02	KOLOA	2	21 57	159 32	1610				C	MC BRYDE SUG CO LTD
ANAHOLA 1114	A 0145	01	KAWAIIHAU	1	22 08	159 18	180		7A		C	LIHUE PLANTATION CO
BRYOESWOOD STA 985	A 0240	02	KOLOA	2	21 56	159 32	720		7A			MC BRYDE SUG CO LTD
EAST LAWA 934	A 0456	02	KOLOA	2	21 55	159 30	440		7A			MC BRYDE SUG CO LTD
ELEELE 927	A 0470	02	KOLOA	2	21 54	159 35	150		6A			MC BRYDE SUG CO LTD
HALAULA 1110	A 0935	01	KAWAIIHAU	1	22 07	159 19	253		7A			LIHUE PLTN CO LTD
HALENANAO 1006	A 1038	02	LIHUE	2	21 58	159 26	490		8A			LIHUE PLANTATION CO LTD
HANAHANAPUNI 1055.2	1140	02	KAUAI	2	22 03	159 25	600				C	LIHUE PLANTATION CO LTD
HANAIEI TUNNEL 1053	A 1170	01	KAWAIIHAU	1	22 05	159 28	1218		MO			U S GEOLOGICAL SURVEY
HUKIPO 945	2161	03	WAIIMEA	3	21 59	159 41	800		8A			KEKAHA SUGAR CO LTD
ILILIULA INTAKE 1050	A 2222	02	LIHUE	2	22 02	159 28	1050		VAR			LIHUE PLANTATION CO LTD
INTAKE WAINIHA PC 1086A	2227	01	HANAIEI	1	22 09	159 34	690		WI			MC BRYDE SUG CO LTD
KANALOHULUHULU 1075	3099	03	WAIIMEA	3	22 08	159 40	3600	7A			C	STATE DIVISION OF PARKS
KANEHA RESERVOIR 1092	A 3104	01	KAWAIIHAU	1	22 08	159 23	830		7A			LIHUE PLANTATION CO LTD
KAPAA STABLES 1104	3159	01	KAWAIIHAU	1	22 05	159 20	175				C	LIHUE PLANTATION CO LTD
KEALIA 1112	A 3982	01	KAWAIIHAU	1	22 06	159 19	9		7A			LIHUE PLANTATION CO LTD
KEKAHA 944	4272	03	WAIIMEA	3	21 58	159 43	9		8A		C	KEKAHA SUGAR CO LTD
KILAUEA 1134	A 4561	01	HANAIEI	1	22 13	159 25	320		7A		C	NICK RAPDZD
KILAUEA POINT 1133	4568	01	HANAIEI	1	22 14	159 24	180	7A	7A			MRS ELIZABETH MACIOLEK
KOLO 1033	4735	03	WAIIMEA	3	22 04	159 46	36		7A			KEKAHA SUGAR CO LTD
KOLOA 936	A 4742	02	KOLOA	2	21 55	159 28	240		8A			MC BRYDE SUG CO LTD
KOLOA LN (MAK) 940.1	4748	01	KAUAI	2	21 52	159 27	52	7A				AUSCG LORAN STATION
KOLOA MAUKA 994	A 4750	02	KOLOA	2	21 57	159 29	640		7A			MC BRYDE SUG CO LTD
KUKUIULA 935	A 4950	02	KOLOA	2	21 54	159 30	100		6A			MC BRYDE SUG CO LTD
LIHUE VARIETY ST 10621A	5560	02	LIHUE	2	22 01	159 23	380		7A		C	LIHUE PLANTATION CO LTD
LIHUE 1020	A 5575	02	LIHUE	2	21 59	159 22	207		7A			LIHUE PLANTATION CO LTD
LIHUE WSO AP 1020.1	R 5580	02	LIHUE	2	21 59	159 21	103	8A	8A	7AC	J	NATL WEATHER SERVICE
MAKAWELI 965	A 5864	03	WAIIMEA	3	21 55	159 38	140		7A			OLOKELE SUGAR CO
MANA 1026	6082	03	WAIIMEA	3	22 02	159 46	20		8A			KEKAHA SUGAR CO LTD
MOHIHI UPR CROSS 1083	A 6433	01	WAIIMEA	3	22 07	159 36	3500		MID			U S GEOLOGICAL SURVEY
MOLOAA 1145	A 6529	01	KAWAIIHAU	1	22 11	159 20	330		7A			THEODORE JAVELLANA JR
MOUNT WAIALALE 1047	R 6565	03	WAIIMEA	2	22 04	159 30	5148		MID			U S GEOLOGICAL SURVEY
NIU RIDGE 1035	6850	03	WAIIMEA	3	22 02	159 44	1250	6A	6A			KEKAHA SUGAR CO LTD
N WAILUA OITCH 1051	A 6888	02	LIHUE	2	22 04	159 28	1110		7A			LIHUE PLANTATION CO LTD
N WAILUA RIVER 1055	A 6893	02	KIHUE	2	22 04	159 26	650		MD			LIHUE PLANTATION CO LTD
PH WAINIHA 1115	8155	01	HANAIEI	1	22 12	159 34	101		6A		C	MC BRYDE SUG CO LTD
PRINCEVILLE RANCH 1117	8165	01	HANAIEI	1	22 13	159 29	295		9A		C	PRINCEVILLE RANCH INC
PUEHU RIDGE 1040	8205	03	WAIIMEA	3	22 01	159 42	1660		8A			KEKAHA SUGAR CO LTD
PUHI 1013	A 8217	02	LIHUE	2	21 58	159 24	329		8A			LIHUE PLANTATION CO LTD
WAHIAWA 930	A 8941	02	KOLOA	2	21 54	159 34	215		7A		C	MC BRYDE SUG CO LTD
WAIAHI LOWER 1054	8958	02	LIHUE	2	22 01	159 27	565	6A	6A			LIHUE PLANTATION CO LTD
WAIAHI UPPER 1052	8966	02	LIHUE	2	22 01	159 28	780		6A			LIHUE PLANTATION CO LTD
WAILAWA 943	9253	03	WAIIMEA	3	21 59	159 43	10		8A			KEKAHA SUGAR CO LTD
WAILUA KAI 1065	A 9467	02	LIHUE	2	22 02	159 21	50		7A			LIHUE PLANTATION CO LTD
WAIIMEA 947	9629	03	WAIIMEA	3	21 58	159 41	20		8A			KIKAHA SUGAR CO LTD
WEST LAWA 931	A 9955	02	KOLOA	2	21 54	159 31	210		6A			MC BRYDE SUG CO LTD
ISLAND OF OAHU												
AHUMANU LODP 839.12	0055	01	KOOLAUPOKO	1	21 26	157 51	320				C	DR DON MITCHELL
ALOHA STADIUM-HALAWA	0172	03	OAHU	3	21 23	157 56	40	8A	8A			ALOHA STADIUM
BERETANIA PUMPING STA	0211	02	HONOLULU	2	21 19	157 51	20		9A			BOARD OF WTR SUPPLY
B Y U LAIE 903.1	0240	01	KOOLAUPOKO	1	21 39	157 56	20	12M	12M			B Y U-HAWAII CAMPUS
CAMPBELL IND PK 702.5	0248	02	OAHU	3	21 19	158 07	10		8A			CHEVRON U S A INC
CAMP 84 807	0300	03	EWA	3	21 26	158 04	760				C	OEL MONTE CORPORATION
COCONUT ISLAND 840.1	0350	01	KOOLAUPOKO	1	21 26	157 47	15		8A			H INST MARINE BIOLOGY
ODWSETT HIGHLOS 780.8	0438	02	HONOLULU	2	21 21	157 50	565				C	J L BANNING
EWA PLANTATION 741	0507	03	EWA	3	21 21	158 02	5		7A			OAHU SUGAR COMPANY
HALAWA SHAFT 771.2	0964	02	HONOLULU	2	21 23	157 54	170				C	NWS SNS AREA II PRH
HAWAII KAI CRSE 724.19	1308	02	OAHU	2	21 18	157 39	21				C	HAWAII KAI GOLF COURSE
HELEMANO INTAKE 881	1384	05	WAILAUA	5	21 33	158 00	1274				C	WAILAUA SUGAR CO INC
HOKULOA 725.2	A 1540	03	EWA	3	21 24	158 06	2260				C	WILLIAM M KIRKPATRICK
HONOLULU OBSERV 702.2	1918	03	EWA	3	21 19	158 00	5	9A	9A	9A		NATL WEATHER SERVICE
HONOLULU WSD 703 AP	1919	02	HONOLULU	2	21 20	157 55	7	MID	MID		C	NATL WEATHER SERVICE
KAENA POINT 841.3	2410	04	WAILAUA	4	21 34	158 15	1240		9A			U S AIR FORCE
KAHANA 883	A 2462	01	KOOLAUPOKO	1	21 31	157 54	800		WI			WAIHOLE WATER CO LTD
KAHUKU 912	A 2570	01	KOOLAUPOKO	1	21 42	157 59	15				C	KIULIMA HOTEL

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ISLAND OF OAHU													
KAILUA FIRE STA 791.3		2683	01	KOOLAUPOKO	1 21 24	157 45	10						KAILUA FIRE STATION
KALIHU RES SITE 777	R	2960	02	HONOLULU	2 21 23	157 50	910		MIO				BOARD OF WTR SUPPLY
KANEHOE MAUKA 781		3113	01	KOOLAUPOKO	1 21 25	157 49	325	7A	7A				STATE HOSPITAL
KAPALAMA 773	A	3268	02	HONOLULU	2 21 21	157 52	614		8A				KAMEHAMEHA SCHOOLS
KAWAIHAPAI 841	A	3734	05	WAIALUA	5 21 35	158 11	40		7A				WAIALUA SUGAR CO INC
KEMOO CAMP 8 855	A	4318	05	WAIALUA	5 21 33	158 05	725		7A				WAIALUA SUGAR CO INC
KOOLAU DAM 833	A	4766	05	WAIKAWA	5 21 30	157 58	1160		8A				US ARMY SCHOFIELD BRKS
LULUKU 781.7		5655	01	KOOLAUPOKO	1 21 24	157 49	240						NATL WEATHER SERVICE
MAKAHA PUMP 800.2		5782	04	OAHU	4 21 29	158 12	400						CAPITAL INVESTMENT CO
MAKAKILO 730.1		5789	03	OAHU	3 21 21	158 06	300		6A				NEAL ADAMS
MANOA 712.1		6122	02	HONOLULU	2 21 19	157 49	220		7A				CHARLES COOKE
MANOA LYON ARBORETUM		6128	02	OAHU	2 21 20	157 48	500	8A	8A				LYON ARBORETUM
MANOA TUNNEL 2 716	R	6130	02	HONOLULU	2 21 20	157 48	650		MIO				BOARD OF WTR SUPPLY
MAUNAWILI 787.1		6222	01	KOOLAUPOKO	1 21 21	157 46	395						EXP STN H S P A
MOANALUA 770		6395	02	HONOLULU	2 21 21	157 54	20		9A				JOHN A ROXBURGH
MOUNT KARLA 844		6553	04	WAIANAE	4 21 31	158 09	4025						FAR
NUUANU RES 4 783		6928	02	HONOLULU	2 21 21	157 49	1048		MIO				BOARD OF WTR SUPPLY
NUUANU RESERV 5 775	A	6933	02	HONOLULU	2 21 21	157 50	410		WI				BOARD OF WTR SUPPLY
OPAEULA 870	A	7150	05	WAIALUA	5 21 34	158 02	1060	7A					WAIALUA SUGAR CO INC
PAIKO OR 723.4		7540	02	HONOLULU	2 21 17	157 44	10		6P				O L GRUBB
PALI GOLF COURSE 788.1		7656	01	OAHU	1 21 23	157 47	460		10A				CC DEPT PKS RECREATION
PALOLO VALLEY 718	R	7664	02	HONOLULU	2 21 20	157 46	995		MIO				BOARD OF WTR SUPPLY
PAUOA FLATS 784	R	7810	02	HONOLULU	2 21 21	157 48	1640		MIO				BOARD OF WTR SUPPLY
PEARL COUNTRY CL 760.2		7942	03	OAHU	3 21 23	157 56	120						PEARL COUNTRY CLB OF HA
PUNALUU PUMP 905.2		8314	01	KOOLAULOA	1 21 35	157 54	20						NATL WEATHER SERVICE
PUNCHBOWL CRATER 709	A	8316	02	HONOLULU	2 21 19	157 51	360		8A				NAT MEM CEMETERY
PUPUKEA HEIGHTS 896.4		8342	01	WAIALUA	1 21 39	158 02	900						JACK N WHEELER
PUU MANAWAHUA 725.6		8500	03	OAHU	3 21 23	158 06	1690		8A				HUGH HAMILTON
TANTALUS 2 780.5		8738	02	HONOLULU	2 21 20	157 50	1325		7A				R E WHITE
UNIV OF HAWAII 713	A	8815	02	HONOLULU	2 21 18	157 45	79		8A				UNIVERSITY OF HAWAII
WAIKAWA DAM 863		8945	05	WAIKAWA	5 21 30	158 03	854						WAIALUA SUGAR CO INC
WAIHOLE 837	A	8964	01	KOOLAUPOKO	1 21 28	157 53	745		8A				WAIHOLE WATER CO LTO
WAIKALAE KAHALA 715		9185	02	HONOLULU	2 21 17	157 47	40		7A				SPENCER TINKER
WAIKALAE 896.3		9190	01	KOOLAULOA	1 21 41	158 02	33	8A	8A				WAIKALAE LIVESK RES FARM
WAIALUA 847	A	9195	05	WAIALUA	5 21 35	158 07	32	7A	7A				WAIALUA SUGAR CO INC
WAIANAE 798.2	A	9231	04	WAIANAE	4 21 27	158 11	10		7A				SEN MAYES
WAIKAWA 836	A	9261	03	EWA	3 21 28	157 56	800		MO				WAIHOLE WATER CO LTO
WAIKANE 885	A	9340	01	KOOLAUPOKO	1 21 30	157 53	760		WI				WAIHOLE WATER CO LTO
WAIKIKI 717.2		9397	02	HONOLULU	2 21 16	157 49	10	8A	8A				HONOLULU ZOO
WAILUPE VLY SCH 723.6		9500	02	HONOLULU	2 21 18	157 45	180						WAILUPE VALLEY SCHOOL
WAIMANALO EXP FM 795.1		9523	01	KOOLAUPOKO	1 21 20	157 43	60		7A				U H WAIMANALO EXP FARM
WAIMANALO NONOKI 795.2		9534	01	OAHU	1 21 20	157 43	120						WAIMANALO EXP FARM
WAIMEA 892		9593	05	WAIALUA	5 21 38	158 04	330						WAIALUA SUGAR CO INC
WAIPAHU 750	A	9738	03	EWA	3 21 23	158 01	59		8A				WAIHOLE WATER CO LTO
WILHELMINA RISE 721	R	9980	02	HONOLULU	2 21 18	157 47	1100		MIO				BOARD OF WTR SUPPLY
ISLAND OF MOLOKAI													
KALAUPAPA 563	A	2896	01	MOLOKAI	1 21 12	156 59	30		8A				KALAUPAPA SETTLEMENT
KAUNAKAKAI 536		3541	01	MOLOKAI	1 21 06	157 01	12		7A				MOLOKAI RANCH LTO
KAUNAKAKAI MAUKA 536.5		3547	01	MOLOKAI	1 21 06	157 01	70						MOLOKAI GENERAL HOSP
KEONELELE PENS 551	A	4394	01	MOLOKAI	1 21 12	157 12	560		VAR				MOLOKAI RANCH CO LTO
KUALAPUU 534	A	4778	01	MOLOKAI	1 21 09	157 02	825						OEL MONTE CORPORATION
MAUNALO 511	A	6190	01	MOLOKAI	1 21 08	157 13	1070						MOLOKAI RANCH CO LTO
MOLOKAI AP 524		6534	01	MOLOKAI	1 21 09	157 06	450	8A	8A				ALOHA AIRLINES
PUU O HOKU RANCH 542.1		8549	01	MOLOKAI	1 21 09	156 44	700						CHARLIE APIA (FOREMAN)
WAIKOLU 540	A	9404	01	MOLOKAI	1 21 08	156 55	3550		WI				MOLOKAI RANCH LTO
ISLAND OF LANAI													
KANEPUU 690	A	3130	01	LAHAINA	1 20 52	157 00	1650		WI				U S O A
KAUNALAPUU HARBOUR 658		3461	01	LAHAINA	1 20 47	157 00	30		8A				OOLE COMPANY
LANAI AIRPORT 656		5275	01	LAHAINA	1 20 48	156 57	1300	8A	8A				HAWAIIAN AIR
LANAI CITY 672	A	5286	01	LAHAINA	1 20 50	156 55	1620	7A	7A				OOLE COMPANY
LANAIHALE 684	A	5301	01	LAHAINA	1 20 49	156 53	3370		WI				U S O A
MAHANA 694	A	5704	01	LAHAINA	1 20 52	156 55	1430		MO				U S O A
MALAEUA 676	A	6012	01	LAHAINA	1 20 46	156 55	1150		WI				KOELE COMPANY
WAIKAEKUA 685	A	9021	01	LAHAINA	1 20 47	156 52	2000		WM				KOELE COMPANY

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ISLAND OF MAUI												
AUWAHI 252	A 0175	02	HANA	2	20 37	156 20	2060		VAR			ULUPALAKUA RCH CO LTD
FIELD 46 474	0541	04	LAHAINA	4	20 59	156 38	1050				C	MAUI LAND-PINEAPPLE CO
HAELAAU 477	A 0790	04	LAHAINA	4	20 57	156 36	2980		MO			MAUI LAND-PINEAPPLE CO
HALEAKALA 8 E 5 434	A 0995	01	MAKAWAO	1	20 51	156 18	2100		7A			U OF H AGRIC EXP STA
HALEAKALA RANCH 432	A 0999	01	MAKAWAO	1	20 50	156 19	1850		8A			HALEAKALA RANCH CO
HALEAKALA RS 338	1004	02	MAKAWAO	2	20 46	156 15	7030		8A			HALEAKALA NAT PARK
HALIIMAILE 423	A 1075	01	MAKAWAO	1	20 52	156 21	1070		3A			MAUI LAND-PINEAPPLE CO
HAMAKUAPOKO 485	1086	01	MAKAWAO	1	20 55	156 21	320		5A			HAWAIIAN COM & SUG CO
HANA 354	1122	01	HANA	1	20 45	155 59	120				C	HARRY HASEGAWA
HANA AIRPORT 355	1125	01	HANA	1	20 48	156 01	61	8A	8A			ROYAL HAWAIIAN AIRLINES
HOLUA CABIN 259.5	A 1552	02	MAKAWAO	2	20 45	156 13	6930		MO			HALEAKALA NATL PARK RGS
HONOKOHU 480	A 1882	04	LAHAINA	4	20 58	156 36	870		MO			MAUI LAND-PINEAPPLE CO
HONOKOHU 493	A 1887	04	LAHAINA	4	21 00	156 39	135		6A			MAUI LAND-PINEAPPLE CO
HONOLUA FIELD 49 494	A 1914	04	LAHAINA	4	21 01	156 38	125		MO			MAUI LAND-PINEAPPLE CO
HONOMANU GULCH 341	A 1935	01	MAKAWAO	1	20 47	156 14	6280		MO			HALEAKALA RANCH CO
KAAHAPALI AP 453.1	2307	04	LAHAINA	4	20 56	156 42	8	8A	8A			AMFAC PROPERTIES INC
KAHAKULOA MAUKA 482.3	2453	03	WAILUKU	4	20 59	156 33	650				C	EDWARD CHANG
KAHOMA INTAKE 374	A 2552	04	LAHAINA	4	20 54	156 38	2000		WI			PIONEER MILL CO LTD
KAHULU 450 398 AP	R 2572	03	WAILUKU	3	20 54	156 26	48	MID	MID		C J	NATL WEATHER SERVICE
KAILIILI 436	A 2630	01	MAKAWAO	1	20 51	156 16	2520		MO			E MAUI IRR CO LTD
KAILUA 446	2679	01	MAKAWAO	1	20 54	156 13	700	7A	7A			E MAUI IRR CO LTD
KAUOLA INTAKE 375	A 3433	04	LAHAINA	4	20 53	156 38	1585		WI			PIONEER MILL CO LTD
KAUPO RANCH HOUSE 259	3576	02	HANA	2	20 39	156 08	1020				C	KAUPO RANCH CO
KEAHUA 410	3910	03	MAKAWAO	3	20 52	156 23	480		5A			HAWAIIAN COM & SUG CO
KEANAE 346	A 4091	01	HANA	1	20 50	156 10	980		MO			E MAUI IRR CO LTD
KEAWAKAPU BEACH 260.2	4193	02	MAKAWAO	2	20 42	156 27	20	8A	8A		C	ALLEN L CORELL
KIHEI 311	4489	03	WAILUKU	3	20 47	156 27	90		7A			HAWAIIAN COM & SUG CO
KIPAHULU 258	4634	01	HANA	1	20 39	156 04	260		7A			HANA RANCH-KIPAHULU SEC
KUKUI 380	A 4887	04	LAHAINA	4	20 54	156 35	5788		MO			MAUI LAND-PINEAPPLE CO
KULA SANATORIUM 267	5006	02	MAKAWAO	2	20 42	156 22	3004	7A	7A			KULA SANATORIUM
LAHAINA 361	5177	04	LAHAINA	4	20 53	156 41	45	7A	7A		C	PIONEER MILL CO LTD
LAUNIUPOKO INTAKE 376	A 5404	04	LAHAINA	4	20 51	156 37	1280		WI			PIONEER MILL CO LTD
LAUNIUPOKO VILLAGE 372A	A 5408	04	LAHAINA	4	20 51	156 39	220		7A			PIONEER MILL CO LTD
LUPU UPPER 442	A 5665	01	MAKAWAO	1	20 53	156 15	1240		MO			E MAUI IRR CO LTD
MAHINAHINA 466	A 5715	04	LAHAINA	4	20 57	156 40	715		7A			PIONEER MILL CO LTD
MOKUPEA 475	A 6521	04	LAHAINA	4	20 59	156 37	1290		MO			MAUI LAND-PINEAPPLE CO
NAKALELE FIELD 60 497	A 6645	04	LAHAINA	4	21 02	156 36	340		VAR			MAUI LAND-PINEAPPLE CO
OLINDA 332	A 7040	01	MAKAWAO	1	20 48	156 17	4127		VAR			E MAUI IRR CO LTD
OLOWALU 296.1	7059	04	LAHAINA	4	20 49	156 37	20		7A			PIONEER MILL CO LTD
PAAKEA 350	7194	01	HANA	1	20 49	156 07	1260		VAR		C	E MAUI IRR CO LTD
PAIA 406	7566	01	WAILUKU	1	20 55	156 23	170		6A			HAWAIIAN COM & SUG CO
PANILEIHULU 259.2	A 7674	02	HANA	2	20 41	156 08	3570		MO			KAUPO RANCH CO
PEAHI 488.6	7952	01	MAUI	1	20 54	156 17	830				C	BERNARD RUPLINGER
POHAKEA BRIDGE 307.2	A 8060	03	WAILUKU	3	20 49	156 31	167		6A			WAILUKU SUGAR CO
POLIPOLI SPRINGS 267.2A	8070	02	MAKAWAO	2	20 41	156 20	6150	VAR	VAR			STATE DIV OF FORESTRY
PUOHOKAMOA 2 343	A 8336	01	HANA	1	20 50	156 13	2980		MO			E MAUI IRR CO LTD
PUUNENE 396	8543	03	WAILUKU	3	20 53	156 27	60		7A			HAWAIIAN COM & SUG CO
PUU PAKI 352	A 8553	01	HANA	1	20 46	156 03	2160				5	E MAUI IRR CO LTD
SPRECKELSVILLE 400.2	8688	03	WAILUKU	3	20 54	156 25	85		8A			HAWAIIAN COM & SUG CO
TWIN GATES 261.3	A 8742	03	MAKAWAO	3	20 46	156 23	1310		VAR			KAONOULU RANCH
UH AGRI RES CNTR 324.5	8743	02	MAUI	2	20 46	156 20	3050	7A			C	UH MAUI AGRI RESCH CNTR
UKULELE 333	A 8744	01	MAKAWAO	1	20 48	156 15	5230		MO			HALEAKALA RANCH CO
UKUMEHAME 301	A 8750	04	LAHAINA	4	20 48	156 35	75		7A			PIONEER MILL CO LTD
ULUPALAKUA RANCH 250	8760	02	MAKAWAO	2	20 39	156 24	1900		8A		C	ULUPALAKUA RCH CO LTD
WAIKULI 364	A 8955	04	LAHAINA	4	20 54	156 40	580		8A			PIONEER MILL CO LTD
WAIHEU CAMP 484	A 9275	03	WAILUKU	3	20 55	156 31	320		6A			WAILUKU SUGAR CO
WAIHEE VALLEY 482	A 9315	04	WAILUKU	4	20 57	156 32	300		6A			WAILUKU SUGAR CO
WAIKAMOI 449	A 9332	01	HANA	1	20 52	156 12	1200		MO			E MAUI IRR CO LTD
WAIKAMOI DAM 336	9335	01	MAKAWAO	1	20 49	156 14	4320				C	E MAUI IRR CO LTD
WAIKAPU 390	A 9376	03	WAILUKU	3	20 51	156 31	370		6A			WAILUKU SUGAR CO
WAILUA IKI 348	A 9460	01	HANA	1	20 48	156 09	2630				5	E MAUI IRR CO LTD
WAILUKU 386	A 9484	03	WAILUKU	3	20 54	156 30	180		7A			WAILUKU SUGAR COMPANY
WAIOPAI RANCH 256	A 9765	02	HANA	2	20 38	156 12	220		OC			HALEAKALA RANCH CO
ISLAND OF HAWAII												
AHUA UMI 75	A 0040	05	N KONA	5	19 38	155 47	5220		MO			W H GREENWELL RANCH
CITY OF REFUGE 27.4	0344	04	S KONA	4	19 25	155 55	15		9A			NAT HISTORICAL PARK

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ISLAND OF HAWAII												
HAINA 214	0840	01	HAMAKUA	1	20 06	155 28	461		8A			HONOKAA SUGAR CO
HAKALAU 142	0905	02	S HILO	2	19 54	155 08	105		7A			MAUNA KEA SUGAR CO
HALEMAUMAU 52	A 1033	03	KAU	3	19 24	155 17	3648		MO			HAWAII NAT PARK
HALEPOHAKU 111	A 1065	02	HAMAKUA	2	19 46	155 28	9220		3P			MAUNA KEA OBSERVATORY
HAWAII VOLCNS NP HQ 54	1303	02	KA'U	2	19 26	155 16	3971	8A	8A	C		HA VOLCANOES NAT PK HQS
HAWI 168	A 1339	01	N KOHALA	1	20 14	155 50	580		6A	C		K L BONO
HILO COUNTRY CLUB 86.6	1487	02	HAWAII	2	19 41	155 10	1600			C		REX WILLS II
HILO WSO AP 87	R 1492	02	S HILO	2	19 43	155 04	36	MIO	MIO	C	J	NATL WEATHER SERVICE
HOLUALOA 70	A 1557	04	N KONA	4	19 38	155 55	3220		MO			STATE DIV OF FORESTRY
HOLUALOA BEACH 68	A 1562	04	N KONA	4	19 37	155 59	14		7A			CAPT COOK CATTLE CO
HONAUNAU 27	1665	04	S KONA	4	19 27	155 53	1089		7A			SHIGETO L TANAKA
HONOHINA 137	1701	02	N HILO	2	19 56	155 09	300		7A			MAUNA KEA SUGAR CO INC
HONOMU MAUKA 138	1960	02	S HILO	2	19 51	155 09	1100			C		MAUNA KEA SUGAR CO
HONUAULA 71	A 2047	04	N KONA	4	19 40	155 53	6250		MO			STATE DIV OF FORESTRY
HUALALAI 72	A 2151	04	N KONA	4	19 42	155 52	8190		MO			STATE DIV OF FORESTRY
HUEHUE 92.1	A 2156	04	N KONA	4	19 45	155 59	1960		6A			HUEHUE RANCH
KAAALA 1KI 12	A 2249	03	KA'U	3	19 08	155 34	1340		WI			KA'U SUGAR CO INC
KAAWALO 29	A 2327	04	SOUTH KONA	4	19 30	155 55	1340		8A			CAPT COOK INVESTMENT CO
KAHIKAWI MAUKA 3.8	2512	03	KA'U	3	19 08	155 46	4120			C		RUSSELL P SMITH
KAHUA RCH HQTRS 176.3	2600	01	HAWAII	1	20 08	155 48	3240			C		KAHUA RANCH COMPANY
KAINALIU 73.2	2751	04	N KONA	4	19 32	155 56	1500	7A	7A			KONA EXPERIMENT STA
KALAOA 69.22	2887	04	HAWAII	4	19 44	155 59	2000		8A			FLOYD W MC COY
KALAPANA 1 67.8	2894	02	S HILO	2	19 20	155 02	10		VAR			HAWAII VOLCANOES NAT PK
KAMAOKA 2 5	A 3048	03	KA'U	3	19 02	155 40	1375		WI			PARKER RCH-KAPAPALA DIV
KAMUELA 192.2	3077	01	S KOHALA	1	20 01	155 40	2670	6A	6A			PARKER RANCH
KAPAPALA RANCH 36	A 3300	03	KA'U	3	19 17	155 27	2140		6A			GORDON CRAN
KAPOHO BEACH 93.11	3368	02	HAWAII	1	19 30	154 49	10	8A	8A			H E MC NICHOLS
KAPOHO LANDING 93.5	A 3369	02	PUNA	2	19 30	154 52	290		VAR			DEPT OF PUBLIC WORKS
KAWAINUI LOWER 193	A 3770	01	HAMAKUA	1	20 05	155 39	1080		WI			HONOKAA SUGAR CO
KERAU 92	3872	02	PUNA	2	19 38	155 02	285		8A			PUNA SUGAR CO
KEAIIWA CAMP 22.1	3925	03	KA'U	3	19 14	155 29	1700			C		KA'U SUGAR CO INC
KEALAKEKUA 3 29.11	3985	04	S KONA	4	19 31	155 55	1530			C		W H GREENWELL RANCH
KEANAKOLU CAMP 124.2	4098	02	HAMAKUA	2	19 55	155 21	5280			C		STATE DIV OF FORESTRY
KIOLAKAA A & F 6	A 4625	03	KA'U	3	19 04	155 38	1925		MO			STATE DIV OF FORESTRY
KIPA 89.2	A 4632	02	S HILO	2	19 44	155 09	1490		WI			MAUNA KEA SUGAR CO
KOHALA MISSION 175.1	4680	01	N KOHALA	1	20 14	155 48	537		7A			K LYMAN BONO
KOIAWE LOWER 196	A 4685	01	HAMAKUA	1	20 05	155 38	720		WI			HONOKAA SUGAR CO
KONA (KAILUA) 68.3	A 4764	04	N KONA	4	19 39	156 00	30	8A	8A	C		CHEVRON USA
KONA VILLAGE 93.8	4765	04	N KONA	4	19 50	155 59	20		8A			KONA VILLAGE RESORT HTL
KUKAIIAU 222	4815	01	HAMAKUA	1	20 02	155 21	840		6A			LAUPAHOEHOE SUGAR CO
KUKUIHAELE HIC 199	4928	01	HAMAKUA	1	20 07	155 35	980		6A			HONOKAA SUGAR CO
KUKUIHAELE MILL 206	A 4938	01	HAMAKUA	1	20 08	155 34	300		6A			HONOKAA SUGAR CO
KULANI CAMP 79	5011	02	S HILO	2	19 33	155 18	5170	8A	8A			ST DEPT OF SOCIAL SER
KULANI MAUKA 76	A 5018	05	N HILO	5	19 35	155 27	8300		WI			MAUNA LOA OBSERVATORY
KULANI SCHOOL SITE 78	A 5021	02	S HILO	2	19 35	155 20	5735		WI			ST DEPT OF SOCIAL SER
LALAMILO FLO OFF 191.1	5260	01	S KOHALA	1	20 01	155 41	2615			C		STATE DEPT OF L&N RES
LANIHAU 68.2	5330	04	N KONA	4	19 40	155 58	1530		7A			KONA EXPERIMENT STATION
LAVA TREE PARK 66.1	5460	02	PUNA	2	19 29	154 54	650			C		STATE DIVISION OF PARKS
MAKAHALAU 103	5761	02	HAWAII	1	19 59	155 33	3820		6A			PARKER RANCH
MANUKA 2	A 6134	03	KAU	3	19 07	155 50	1760		WI			STATE DIVISION OF PARKS
MAUNA KEA 085 111.2	6183	02	HAWAII	2	19 49	155 28	13770	7P	7P			MAUNA KEA OBSERVATORY
MAUNA LOA SLOPE 085	6198	05	HAMAKUA	5	19 32	155 35	11150	MIO	MIO			MAUNA LOA OBSERVATORY
MIOOLE HOLUALOA 68.1	A 6268	04	N KONA	4	19 37	155 58	500		7A			CAPT COOK CATTLE CO
MIOOLE PEN 147.1	A 6270	01	N KOHALA	1	20 06	155 50	1380		VAR			KAHUA RANCH
MOAULA 18	A 6407	03	KA'U	3	19 11	155 30	600		WI			PARKER RCH-KAPAPALA DIV
MOUNTAIN VIEW 91	6552	02	PUNA	2	19 33	155 07	1530	6A	6A	C		PUNA SUGAR CO
NAALEHU 14	A 6588	03	KA'U	3	19 04	155 35	800	8A	8A			KA'U SUGAR CO INC
NAPOOPOO 28	A 6697	04	S KONA	4	19 28	155 55	350		7A			U H KONA EXP STATION
OOKALA 223	7131	02	N HILO	2	20 01	155 17	430	6A	6A	C		LAUPAHOEHOE SUGAR CO
OPIHIHALE 2 24.1	7166	04	S KONA	4	19 16	155 53	1270	7A	7A			MRS LORMA TRUMAN
ORCHIO LAND EST 91.5	A 7185	02	PUNA	2	19 34	155 00	445		VAR			BOARD OF WATER SUPPLY
PAUHAU 217	7204	01	HAMAKUA	1	20 05	155 26	415		8A	C		HONOKAA SUGAR COMPANY
PAUHILO 221	7312	01	HAMAKUA	1	20 03	155 22	800		7A			LAUPAHOEHOE SUGAR CO
PAHALA 21	A 7421	03	KA'U	3	19 12	155 29	870		6A			KA'U SUGAR CO INC
PAHOA 65	7457	02	PUNA	2	19 30	154 57	670		6A			PUNAN SUGAR COMPANY
PAPAIIKOU 144.1	7711	02	S HILO	2	19 47	155 06	260		7A			MAUNA KEA SUGAR CO
PAPAIIKOU MAUKA 140.1	7721	02	S HILO	2	19 47	155 08	1285		7A			MAUNA KEA SUGAR CO

SEE REFERENCE NOTES FOLLOWING STATION INDEX



# STATION INDEX

HAWAII AND PACIFIC  
JULY 1978

STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES				OBSERVER
								TEMP.	PRECIP.	EVAP.	SPECIAL (SEE NOTES)	
ISLAND OF HAWAII												
PIIHONUA 89	A 8051	02	S HILO	2	19 44	155 10	1730		MO			STATE DIV OF FORESTRY STATE DIV OF PARKS SUPT PUU HEIAU-NHS W H GREENWELL RANCH PUU WAAWAA RANCH CO MRS CAROLYN CARLSON PARKER RCH-KAPAPALA DIV U S COAST GUARD SHINICHI KANESHIRO BOISE CASCADES WA CONST
POHAKULOA 107	A 8063	02	HAMAKUA	2	19 45	155 32	6511					
PUUKOHOLA HEIAU 98.1	8422	05	HAWAII	5	20 02	155 50	140	8A	8A			
PUU LEHUA 73	A 8460	04	N KONA	4	19 34	155 49	4880		MO			
PUU WAAWAA 94.1	8555	05	N KONA	5	19 47	155 51	2520					
SOUTH KONA 2.31	8650	03	HAWAII	3	19 06	155 45	2650	8A	8A			
SOUTH POINT CORRAL 3	A 8675	03	KA'U	3	18 57	155 41	500		WI			
UPOLU POINT USCG 159.2	8830	01	N KOHALA	1	20 15	155 53	61	8A	2P			
WAIKAKA 5CD 88.2	9025	02	S HILO	2	19 40	155 08	1050		7A			
WAIKALO-8015 CAS 95.8	9142	04	HAWAII	5	19 56	155 48	900		8A			

SEE REFERENCE NOTES FOLLOWING STATION INDEX

# STATION INDEX

HAWAII AND PACIFIC  
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STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES				OBSERVER
								TEMP.	PRECIP.	EVAP.	SPECIAL (SEE NOTES)	
PACIFIC												
EAST OF 180TH MERIDIAN												
ATU'U	4060	03	TUTUILA		14 16S	170 41W	265		4P			MARIST BROTHERS
CANTON ISLAND	4101	02	PHOENIX IS		2 46N	171 43W	8	9A	9A			ITT/FEDERAL ELEC CORP
FALEASAO VILLAGE	4248	03	TA'U'MAN		14 14S	169 31W	16		8A			SOLOMULI MALU'IA
JOHNSTON IS WSO AP	R 4320	01	LINE ISLANDS		16 44N	169 31W	10	M10	M10	SP	J	NATL WEATHER SERVICE
LEONE	4397	03	TUTUILA		14 21S	170 47W	20	6P	6P			ST THERESA SCHOOL
FRENCH FRIGATE SHOALS	4401	07			23 52N	166 17W	6	8P	8A			U S COAST GUARD
MIDWAY SAND ISLAND	4490	07			28 13N	177 21W	10	M10	M10			U S NAVY
PAGO PAGO WSO AP	R 4690	03	AMER SAMOA		14 20S	170 43W	10	M10	M10	7P	J	NATL WEATHER SERVICE
WESTERN PACIFIC ISL. NORTH OF 12 N												
AGAT	4000	03	GUAM		13 23N	144 39E	10		8A			PUBLIC UTIL AG OF GUAM
ANDERSEN AFB GUAM	\$3 4025	03	MARIANNA IS		13 35N	144 55E	624	M10	M10			AIR WEATHER SERVICE
CLARK AFB LUZON	\$3 4100	06	PHILIPPINE I		15 11N	120 33E	475	M10	M10			U S AIR FORCE
DEDEO	4156	03	GUAM		13 31N	144 51E	350		8A			PUBLIC UTIL AG OF GUAM
GUAM NAS	4226	03	MARIANNA IS		13 29N	144 48E	254	M10	M10			U S NAVY
GUAM WSMO	R 4229	03	MARIANNA IS		13 33N	144 50E	361	10A	10A	6P	J	NATL WEATHER SERVICE
INARRAJAN AG STN	4275	03	GUAM		13 16N	144 45E	30		9A			AGRI EXP STN INARRAJAN
INARRAJAN - NASA	4278	03	GUAM		13 18N	144 44E	280	11A	11A			POWER PLANT OPERATIONS
MANGILAO	4468	03	MARIANNA IS		13 27N	144 49E	60		7A			GUAM AGRICULTURAL STA
PITI	4670	03	GUAM		13 27N	144 41E	10				C	DEPT OF PUBLIC SAFETY
ROTA	4800	03	MARIANNA IS		14 08N	145 09E	47		8A			OIST ADMINISTRATOR
SAIPAN LORAN	4860	03	MARIANNA IS		15 08N	145 42E	9	10A	10A			U S C G LORAN STATION
UMATAK	4885	03	GUAM		13 17N	144 40E	190		8A			GOVERNMENT OF GUAM OPS
WAKE ISLAND WSO AP	R 4901	01	WAKE ISLAND		19 17N	166 39E	12	M10	M10		J	NATL WEATHER SERVICE
YIGO	4950	03	GUAM		13 32N	144 53E	525		9A			ANIMAL QUARANTINE STN
CAROLINE AND MARSHALL ISLANDS												
ANGUAR	4030	02	CAROLINE IS		6 55N	134 09E	15		8A			CLOSED 6/30/78
ENEWETAK	4165	01	MARSHALL IS		11 21N	162 21E	10	6P	6P			MIO-PACIFIC MARINE LAB
FALALOP I ULITHI ATOLL	4185	02	CAROLINE IS		10 02N	139 48E	6	M10	M10			RAPHAEL 8 LINGESOH
KAPINGAMARANGI ATOLL	4325	01	PONAPE		1 05N	154 48E	10	M10	M10			ERSIN HAQUET
KOROR WSO	R 4351	02	CAROLINE IS		7 20N	134 29E	94	M10	M10		J	NATL WEATHER SERVICE
KWAJALEIN MISSILE RGN	R 4375	01	MARSHALL IS		8 44N	167 44E	7	12M	12M		J	KMR WEATHER SERVICE
LELE I KOSRAE	4395	02	KOSRAE		5 20N	163 02E	7	M10	M10			JULIAN E ROBERT
MAJURO WSO AP	R 4460	02	MARSHALL IS		7 05N	171 23E	10	M10	M10		J	NATL WEATHER SERVICE
METALANIM	4482	02	PONAPE		6 51N	158 19E	30	6P	6P			REV E A SOUCIE
MOKIL ATOLL	4490	02	PONAPE		6 41N	159 47E	27		SP			ESHIAM BEN
NGASANG-8ABELTHUAP	4580	01	PALAU ISLAND		7 38N	134 39E	10		8A			BETHANIA SEMINARY
PONAPE WSO	R 4751	02	CAROLINE IS		6 58N	158 13E	123	M10	M10		J	NATL WEATHER SERVICE
SATAWAN ATOLL	4814	02	CAROLINE IS		5 20N	153 44E	9	M10	M10			ANTER EKO
TRUK MOEN I WSO AP	R 4851	02	CAROLINE IS		7 28N	151 51E	5	M10	M10		J	NATL WEATHER SERVICE
WOLEAI ATOLL	4911	01	CAROLINE IS		7 23N	143 55E	7	M10	M10			HASUGULIMAR/HALEYEMAI
YAP WSO AP	R 4951	02	CAROLINE IS		9 29N	138 05E	44	M10	M10	M10	J	NATL WEATHER SERVICE

SEE REFERENCE NOTES FOLLOWING STATION INDEX

# STATION INDEX

HAWAII AND PACIFIC  
JULY 1978

STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES				OBSERVER
								TEMP.	PRECIP.	EVAP.	SPECIAL (SEE NOTES)	
CLOSED STATIONS CAROLINE AND MARSHALL ISLANDS												
ANGUAR	4030	02	CAROLINE IS		6 SSN	134 09E	15		8A			CLOSED 6/30/78
NEW STATIONS WESTERN PACIFIC ISL. NORTH OF 12 N												
AGAT	4000	03	GUAM		13 23N	144 39E	10		8A			PUBLIC UTIL AG OF GUAM PUBLIC UTIL AG OF GUAM AGRI EXP STN INARAJAN POWER PLANT OPERATIONS DEPT OF PUBLIC SAFETY GOVERNMENT OF GUAM OPS ANIMAL QUARANTINE STN
OEDEEO	4156	03	GUAM		13 31N	144 51E	350		8A			
INARAJAN AG STN	4275	03	GUAM		13 16N	144 45E	30		9A			
INARAJAN - NASA	4278	03	GUAM		13 18N	144 44E	280	11A	11A			
PITI	4670	03	GUAM		13 27N	144 41E	10					
UMATAC	4885	03	GUAM		13 17N	144 40E	190		8A			
YIGO	4950	03	GUAM		13 32N	144 53E	525		9A			

SEE REFERENCE NOTES FOLLOWING STATION INDEX

Additional information regarding the climates of Hawaii and the Pacific Ocean Area may be obtained by writing to the National Climatic Center, Federal Building, Asheville, N.C. 28801, or to any National Weather Service Office near you. Additional precipitation data for Hawaii are contained in "HOURLY PRECIPITATION DATA HAWAII."

**DIMENSIONAL UNITS:** Unless otherwise indicated, dimensional units used in this bulletin are: Temperature in °F., precipitation and evaporation in inches, and wind movement in miles. In "Supplemental Data" table directions entered in figures are tens of degrees. Resultant wind is the vector sum of wind directions and speeds divided by the number of observations.

**OBSERVATION TIME:** Data in the "Monthly Extremes," "Daily Precipitation" table, "Daily Temperature" table, and "Evaporation and Wind" table are for the 24 hours ending at time of observation unless indicated otherwise by reference letters in the Station Index. The Station Index shows observation time in local standard time.

**EVAPORATION** is measured in the standard Weather Service-type pan of 4-foot diameter unless otherwise noted below in the Evaporation and Wind table. Max and Min values in the Evaporation and Wind table are extremes of temperature of water in pan as recorded during 24 hours ending at time of observation. Wind is the total wind movement in miles over the evaporation pan as determined by a continuous anemometer recorder located 6-8 inches above the pan.

**NORMALS** for all stations are climatological standard normals based on the period 1941-1970.

**STATION NAMES:** Hawaii state key numbers are included following station names in the several tables.

**LATE REPORTS AND CORRECTIONS** will be carried only in the June and December issues of this bulletin.

**INTERPOLATED VALUES** for monthly precipitation totals may be found in the annual issue of this publication.

**IN THE DATA TABLES THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING:**

- No record in the "Supplemental Data" table, "Daily Precipitation" table, "Evaporation and Wind" table, and the Station Index.
- No record in the "Monthly Summarized Data" table and the "Daily Temperature" table is indicated by no entry.
- + And also on an earlier date or dates.
- ++ Highest observed one minute windspeed. This station is not equipped with an instrument to measure fastest mile data.
- \* Amount included in following measurement, time distribution unknown.
- ‡ Extreme occurred at station with incomplete data which may have been exceeded
- A The letter "A" shown following station name in "Monthly Summarized Data" table, "Daily Precipitation" table, and "Station Index," indicates amount carried in the "Total" column is for the period from last measurement of a preceding month through the last measurement of the current month. See "Daily Precipitation" table of this and previous bulletins for dates of measurement. Where gages are read only once monthly, measurements made on the first of a month are credited to the last day of the preceding month.
- B Adjusted to a full month.
- M One or more days of record missing; if average value is entered, less than 10 days record is missing. See "Daily Temperature" table for detailed daily record.
- R Amounts from recording gage.
- T Trace, an amount too small to measure.
- V Includes total for previous month.

**IN THE STATION INDEX THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING:**

- AR Observation made after rain.
- C In Special Column of Station Index indicates Recording Rain Gage Station. Hourly Precipitation values are processed for special purposes, and are published later in the "Hourly Precipitation Data" bulletin. If daily amounts are published in "Monthly Summarized Data" bulletin they are from a separate non-recording gage, except where indicated by reference 'R'. Such amounts may differ from amounts published from the recording gage in the "Hourly Precipitation Data" bulletin.
- J "Supplemental Data" table.
- MO Gage read once monthly; usually on the last day.
- OC Gage readings at periods varying from a few weeks to several months.
- S Storage precipitation station. Precipitation measurements, made at irregular intervals, are published in the annual issue of this publication, beginning with the 1977 data. Prior data are found in the "Storage-Gage Precipitation Data" Bulletin, which was discontinued with the 1976 issue.
- SS Observation time is near sunset.
- VAR Observation time is variable.
- WI Gage read weekly or irregularly only.
- WM Gage read weekly and last day of month.
- # Thermometers are generally exposed in a shelter located a few feet above sod-covered ground; however, this reference indicates that the thermometers are exposed in a shelter located on the roof of a building.
- 53 Maximum and minimum temperatures are the highest and lowest hourly readings for each day.
- # DRAINAGE COOE: KAUAI: 1-NORTHERN 2-SOUTHEASTERN 3-SOUTHWESTERN OAHU: 1-WINDWARD KOOLAU 2-HONOLULU 3-SOUTH CENTRAL 4-WESTERN 5-NORTH CENTRAL MOLOKAI: 1-(NO INTRA-ISLAND DIVISIONS) LANAI: 1-(NO INTRA-ISLAND DIVISIONS) MAUI: 1-NORTHEASTERN 2-SOUTHERN 3-CENTRAL 4-WESTERN HAWAII: 1-NORTHERN 2-EASTERN 3-SOUTHERN 4-WESTERN 5-CENTRAL

Stations appearing in the tables with no data were either missing or received too late to be included in this issue.

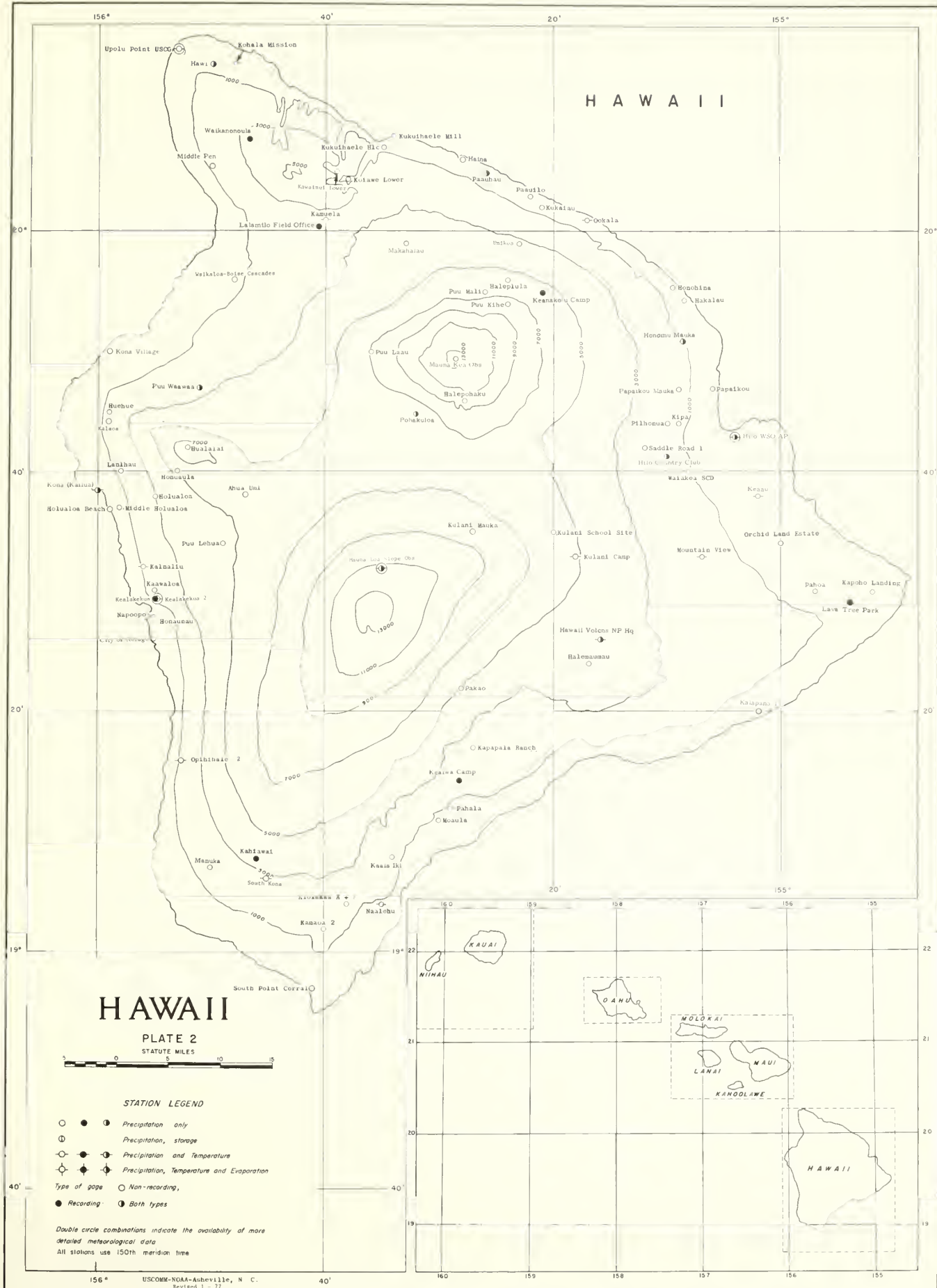
The Pacific includes stations in the Trust Territory of the Pacific Islands, Territory of Guam, American Samoa, and other scattered islands and atolls. General weather conditions in the U.S. for each month are described in the CLIMATOLOGICAL DATA NATIONAL SUMMARY and STORM DATA.

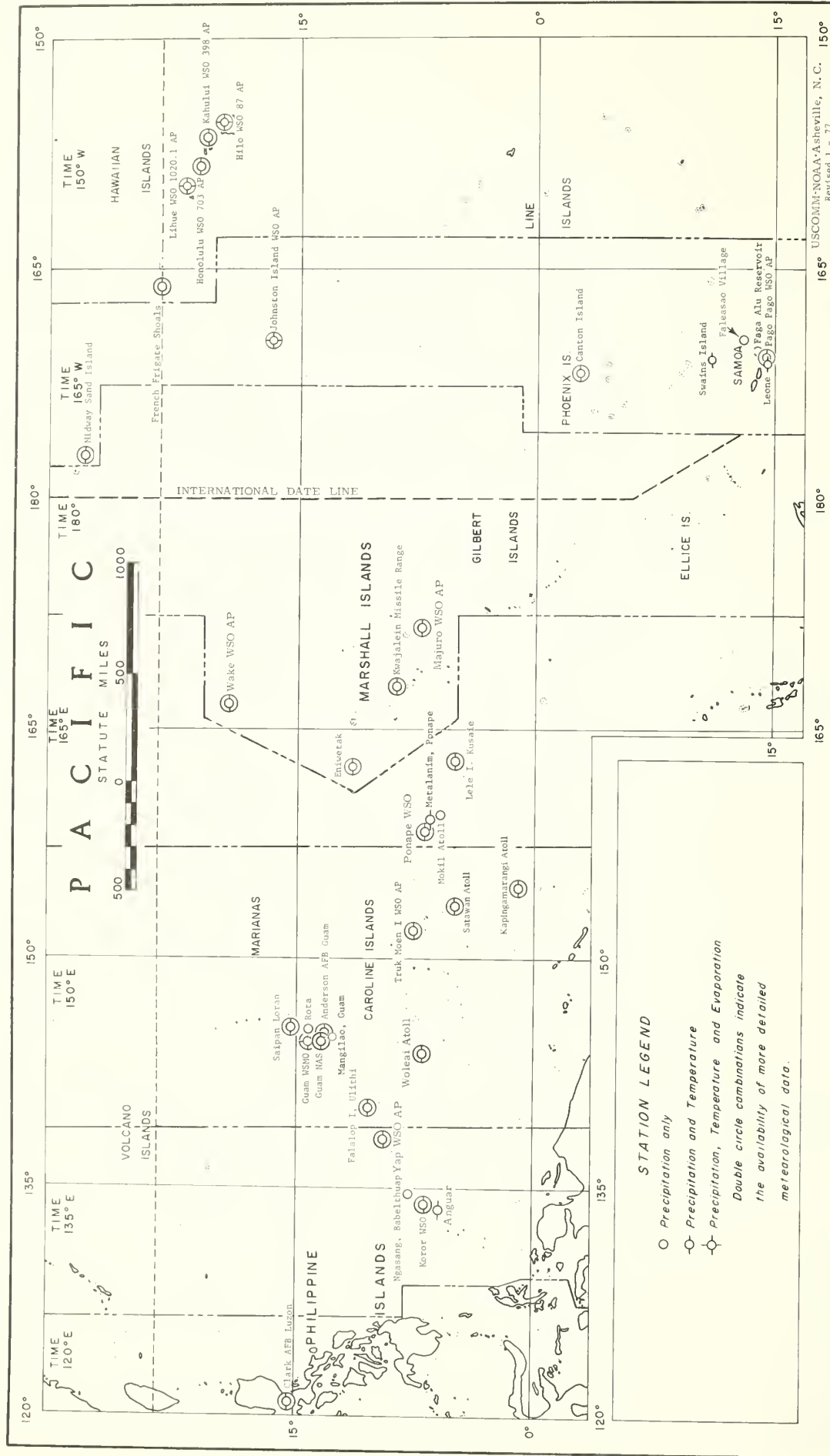
Information concerning the history of changes in locations, elevations, exposure, etc., of substations through 1957 may be found in the publication "Substation History" for this State, price 40 cents. Similar information for regular National Weather Service Offices may be found in the latest annual issue of Local Climatological Data, price 20 cents. These publications may be obtained from the National Climatic Center at the address shown above.

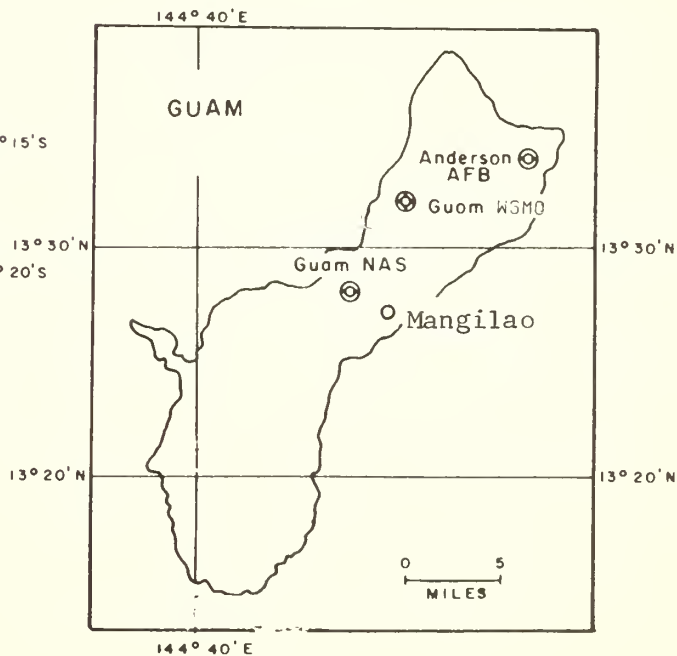
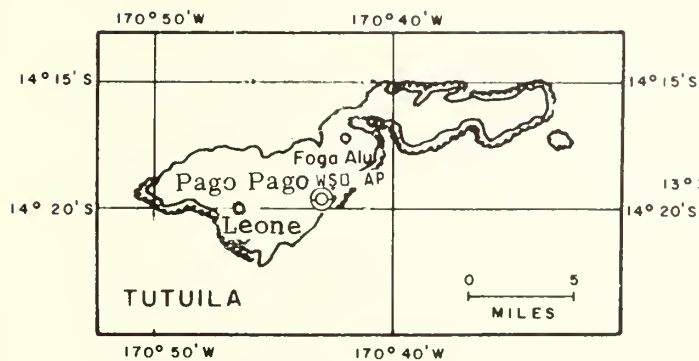
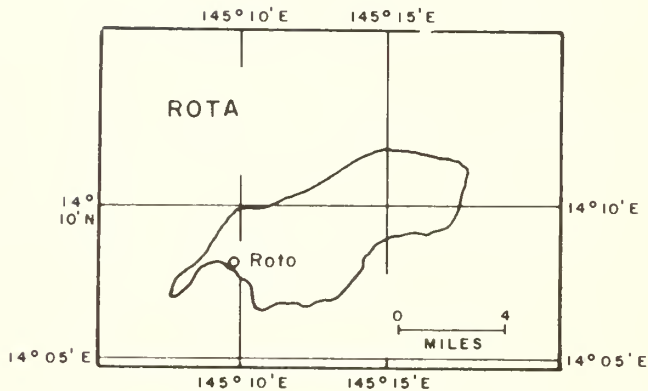
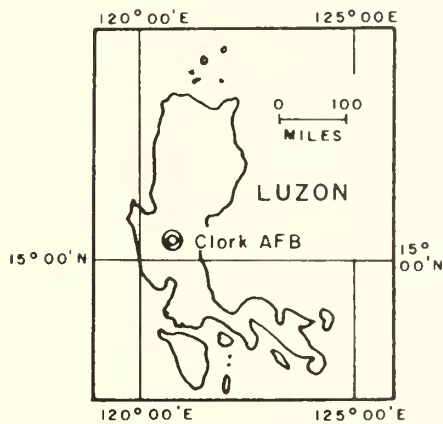
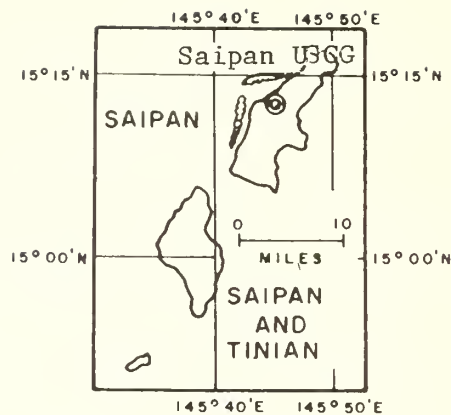
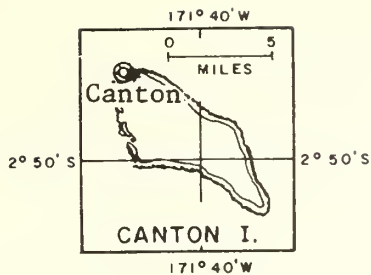
Subscription Price: \$5.10 a year for each section including annual summary; \$5.55 additional for foreign mailing; 40¢ single copy; 30¢ annual summary. Make checks payable to Department of Commerce, NOAA; send payments and orders to: National Climatic Center, Federal Building, Asheville, N. C. 28801. Attn: Publications.



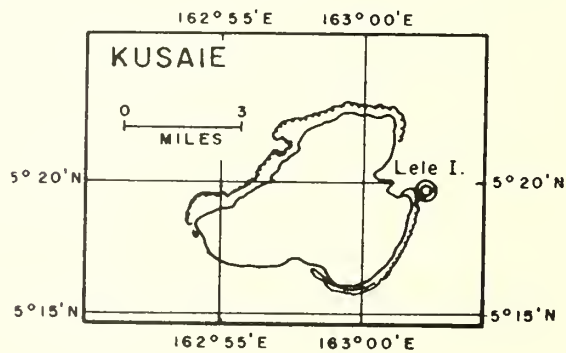
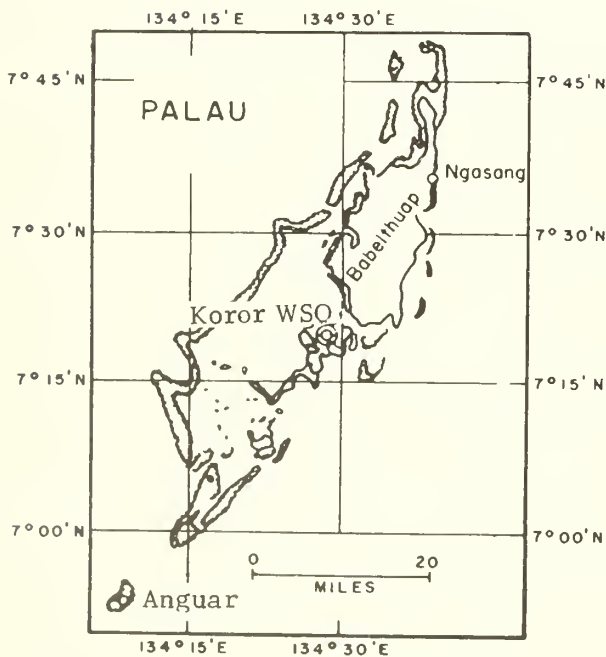
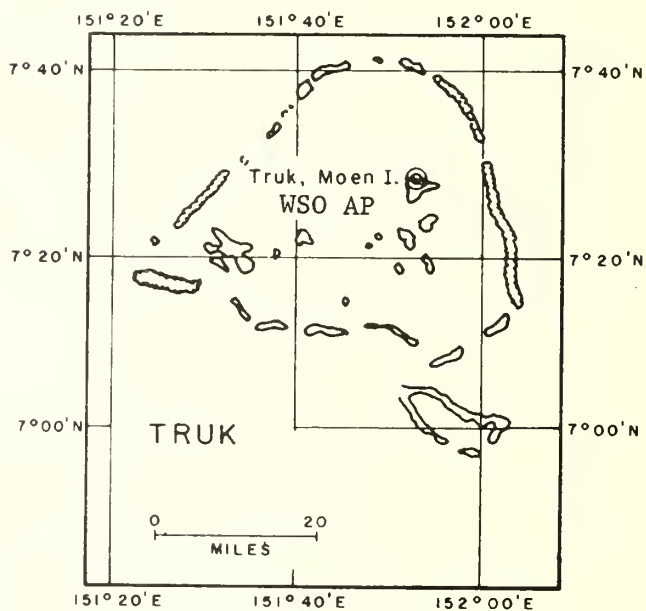
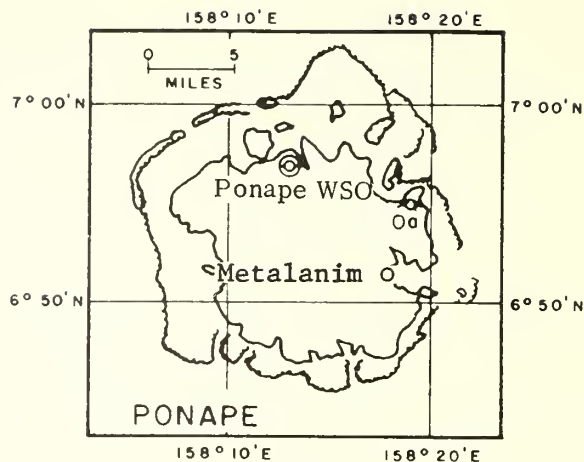
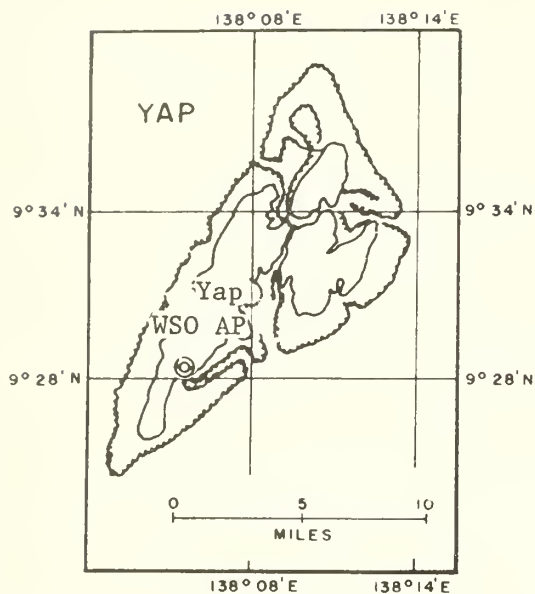




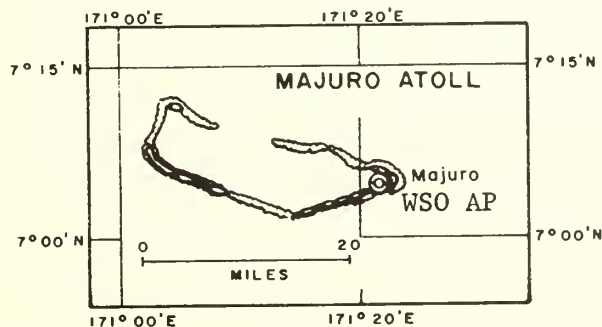
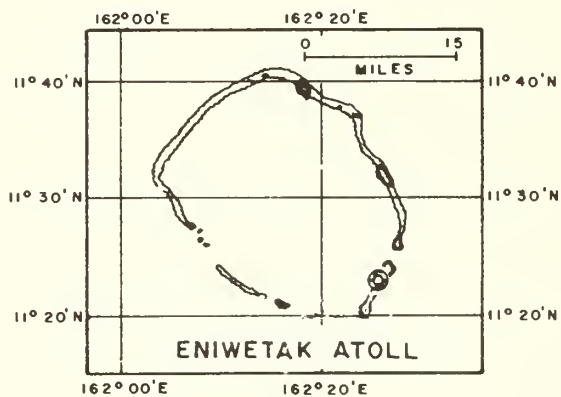
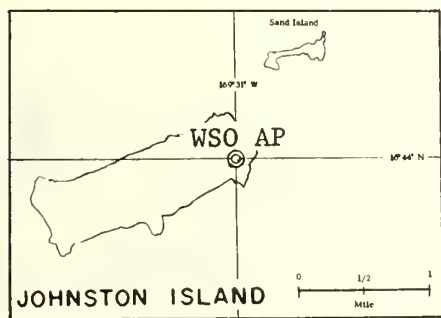
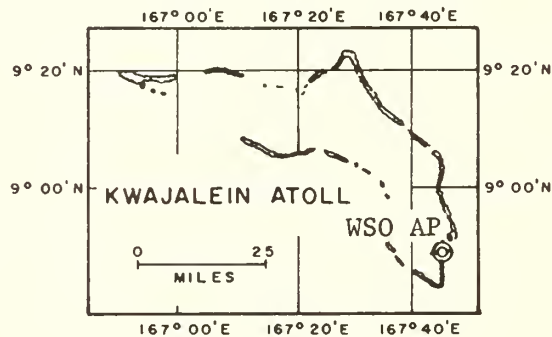
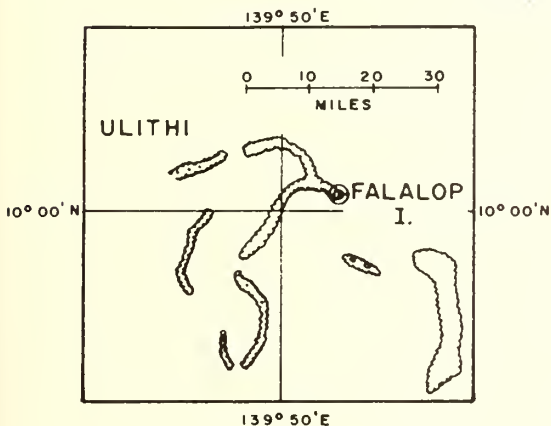
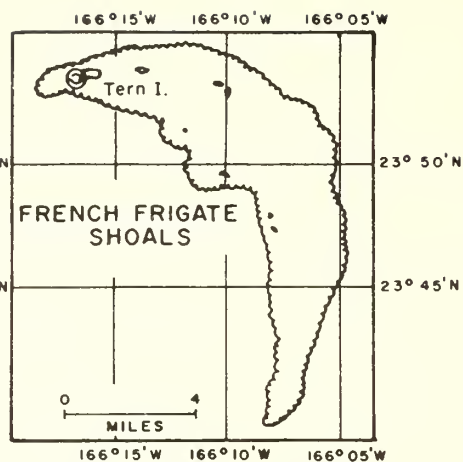
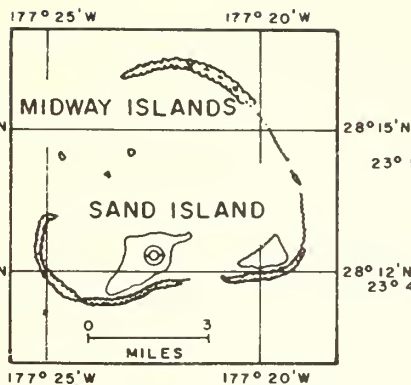
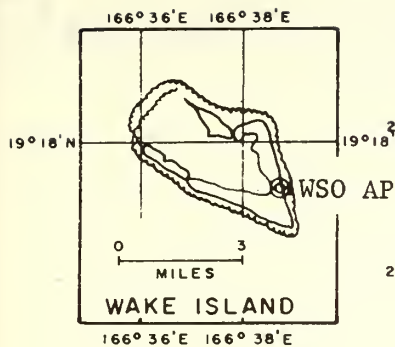




Reef



— Reef





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# Climatological Data

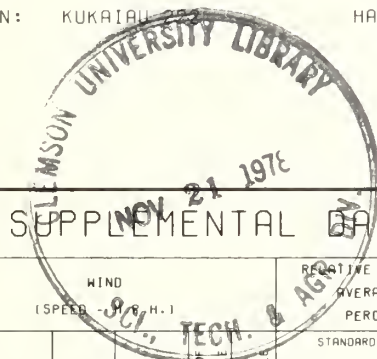


HAWAII AND PACIFIC

## TEMPERATURE AND PRECIPITATION EXTREMES

HAWAIIAN STATIONS ONLY

HIGHEST TEMPERATURE: 2 STATIONS 95 DATE 21+  
 LOWEST TEMPERATURE: MAUNA LOA SLOPE OBS HAWAII 34 DATE 02  
 GREATEST TOTAL PRECIPITATION: KAHANA 883 OAHU 39.36  
 LEAST TOTAL PRECIPITATION: 3 STATIONS .00  
 GREATEST 1 DAY PRECIPITATION: KUKAIAHA 22 HAWAII 6.42 DATE 17



## SUPPLEMENTAL DATA

	WIND (SPEED - M.P.H.)						RELATIVE HUMIDITY AVERAGES - PERCENT				NUMBER OF DAYS WITH PRECIPITATION								PERCENT OF POSSIBLE SUNSHINE	AVERAGE (TENTHS) SKY COVER SUNRISE TO SUNSET
	RESULTANT DIRECTION	RESULTANT SPEED	AVERAGE	FASTEST MILE	DIRECTION FASTEST MILE	DATE OF FASTEST MILE	STANDARD OF TIME GREENWICH CIVIL				TRACE	.01-.09	.10-.49	.50-.99	1.00-1.99	2.00 AND OVER	TOTAL			
							12	18	00	06										
GUAM W5MO	-	-	-	22	SE	21+	-	83	83	92	2	3	12	5	1	4	27	23	9.4	
HILO WSO 87 AP	32	0.2	5.7	19	NE	21	92	86	76	88	0	6	19	4	0	2	31	41	8.1	
HONOLULU WSO 703 AP	6	13.1	13.6	29	NE	31	81	74	55	74	5	6	4	0	0	0	15	71	6.2	
JOHNSTON WSO AP	9	15.6	16.3	40	SE	30	82	81	74	79	3	13	5	0	0	1	22	88	6.2	
KAHULUI WSO 398 AP	5	14.7	15.6	31	E	30	-	74	58	78	9	5	1	1	0	0	16	70	5.7	
KOROR WSO	24	3.0	6.6	34	SW	13	87	-	81	79	1	3	10	4	6	3	27	37	9.4	
KWAJALEIN MISSILE RGN	9	6.1	9.7	24++	8	09	84	85	76	77	3	5	16	1	1	0	26	-	7.5	
LIHUE WSO 1020.1 AP	5	13.2	13.5	22	NE	06	81	81	66	78	6	13	4	0	0	0	23	66	7.6	
MAJURO WSO AP	8	5.0	7.2	26	E	23	84	85	76	78	1	6	12	5	2	0	26	67	8.1	
PAGO PAGO WSO AP	-	-	-	31	NE	16	-	-	-	-	5	8	7	2	1	3	26	27	6.9	
PONAPE WSO	-	-	-	15	NE	02	92	-	76	77	1	8	10	4	4	1	28	44	7.8	
TRUK.MOEN I. WSO AP	8	1.9	7.0	25	E	02	88	-	75	77	3	4	8	8	2	1	26	11	9.3	
WAKE ISLAND WSO AP	9	11.5	12.9	36	E	05	87	90	73	75	1	15	4	2	2	0	24	74	6.2	
YAP WSO AP	21	2.7	7.2	27	SW	12	88	-	79	76	0	6	7	4	6	1	24	27	9.3	

I CERTIFY THAT THIS IS AN OFFICIAL PUBLICATION OF THE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION AND IS COMPILED FROM RECORDS ON FILE AT THE NATIONAL CLIMATIC CENTER, ASHEVILLE, NORTH CAROLINA 28801.

*Daniel B. Mitchell*

DIRECTOR  
NATIONAL CLIMATIC CENTER

**noaa**

NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION / ENVIRONMENTAL DATA AND INFORMATION SERVICE / NATIONAL CLIMATIC CENTER ASHEVILLE, N.C.

## MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

HAWAII AND PACIFIC  
AUGUST 1978

STATION	TEMPERATURE										PRECIPITATION											
	AVERAGE MAXIMUM	AVERAGE MINIMUM	AVERAGE	DEPARTURE FROM NORMAL	HIGHEST	DATE	LOWEST	DATE	DEGREE DAYS	NO. OF DAYS				TOTAL	DEPARTURE FROM NORMAL	GREATEST DAY	DATE	SNOW, SLEET		NO. OF DAYS		
										MAX.	MIN.	TOTAL	DEPTH ON GROUND					DATE	1.0 OR MORE	.50 OR MORE	1.00 OR MORE	
																						32° OR ABOVE
HAWAII																						
ISLAND OF KAUAI																						
ANAHOLA 1114	A													2.49	.40	4		0		0	0	0
KANALOHULU 1075		73.0	56.9	65.0		77	31+	51	13	0	0	0	0	2.18	.57	4		0		8	1	0
KILAUEA POINT 1133		M	M	M		87	23+	70	24	0	0	0	0	2.56	.38	29		0		0	0	0
KOLOA 936	A													6.00				0		0	0	0
LIHUE WSO AP 1020.1	//R	84.7	74.1	79.4	.3	87	31+	71	29+	0	0	0	0	1.19	- 1.02	.25	7		0	4	0	0
MANA 1026														.16	- .61	.08	20		0	0	0	0
N WAILUA DITCH 1051	A													22.88				0		0	0	0
PH WAINIHA 1115														11.50	2.80	4.03	22		0	0	3	0
PUEHU RIDGE 1040														.22	- 1.45	.12	14		0	2	0	0
WAIHANA 930	A													1.95	- .28	.73	2		0	1	0	0
WAIHAI LOWER 1054		76.5M	67.4M	72.0M		81	29+	65	16+	0	0	0	0	13.20	2.32	1.94	8		0	26	8	3
WAIHAI 947		88.5	67.8	78.2		94	16	59	11	10	0	0	0	.03	- .74	.03	15		0	0	0	0
ISLAND				73.7										5.36					0			
ISLAND OF OAHU																						
ALOHA STADIUM-HALAWA		85.7M	72.9M	79.3M		88	13+	70	29	0	0	0	0	.65	.20	4		0		0	0	0
B Y U LAIE 903.1		86.0	74.2	80.1		93	22	69	29	2	0	0	0	3.19	.45	21		0		11	0	0
HONOLULU OBSERV 702.2		89.6	70.5	80.1		92	31+	67	18	22	0	0	0	.82	.50	8		0		3	1	0
HONOLULU WSO 703 AP	R	88.0	72.9	80.5	-.2	91	14	71	18	7	0	0	0	.83	.27	21		0		4	0	0
KANEHE MAUKA 781		81.4	73.3	77.4	.4	84	4+	68	8	0	0	0	0	6.70	2.75	1.08	2		0	16	4	1
KODOLU DAM 833	A													9.86	1.09	20		0	18	9	3	
MANOA LYON ARBORETUM		80.3	69.4	74.9		86	15	67	18	0	0	0	0	19.54	3.58	8		0	20	13	7	
NUUANU RES 4 783														15.42	6.42			0				
OPAEULA 870	A	80.5	69.8	75.2	2.1	83	5	67	19	0	0	0	0					0				
PALOLO VALLEY 718	R													18.30	7.76	3.48	7		0	22	11	7
WAIHOLE 837	A													20.81				0				
WAIALEE 896.3		84.0M	72.7M	78.4M		86	30+	67	26	0	0	0	0	1.97	.42	4		0		0	0	0
WAIALUA 847	A	85.7	66.8	76.3	-.3	90	15+	62	28+	3	0	0	0	1.01	.36	22		0	3	0	0	0
WAIKIKI 717.2		88.6	73.5	81.1		92	15	70	3	7	0	0	0	.26	.08	8		0	0	0	0	0
WAIMANALO EXP FM 795.1														1.48	.37	22		0	6	0	0	0
WAIPIAHU 750	A													1.15	.62	22		0	2	1	0	0
ISLAND				78.3										6.80					0			
ISLAND OF MOLOKAI																						
MOLOKAI AP 524		88.5	71.6	80.1		92	16+	68	16+	8	0	0	0	.13	.06	22		0	0	0	0	0
ISLAND				80.1										.13					0			
ISLAND OF LANAI																						
LANAI CITY 672	A	77.9M	67.7M	72.8M	.7	80	31+	63	10	0	0	0	0	4.15	2.52	1.31	17		0		1	
ISLAND				72.8										4.15					0			
ISLAND OF MAUI																						
HALEAKALA B E S 434	A	66.5	48.4	57.5	.5	71	28+	41	12	0	0	0	0	4.54	2.48	21		0	7	2	1	
HOLEAKALA R S 338														3.48	1.99	8		0	5	1	1	
HANA AIRPORT 355	A	83.2	72.2	77.7		86	31	69	28	0	0	0	0	6.27	.66	21		0	22	3	0	
HONOKOHU 493														3.14	.80	22		0	0	1	0	0
KAAHAPALI AP 453.1		87.1M	71.2M	79.2M		90	31+	68	18+	4	0	0	0	.19	.12	8		0	1	0	0	
KAHULUI WSO 398 AP	R	89.2	73.2	81.2	2.4	93	4	67	24	13	0	0	0	.98	.64	.80	21		0	2	1	0
KAILUA 446		78.2M	68.9M	73.6M	.3	80	30+	66	28	0	0	0	0	16.65	5.42	4.15	22		0			
KEANAE 346	A													27.10				0				
KIPAHULU 258														7.14	-.52	.60	12		0	19	4	0
KULA SANATORIUM 267		74.9	58.9	66.9	.6	84	31	56	25+	0	0	0	0	3.91	1.84	2.08	4		0	5	3	1
LAHAINA 361		89.5	69.9	79.7	1.7	92	30+	65	18+	17	0	0	0	.42	.09	.37	8		0	1	0	0
PAIA 406														1.45	-.22	.75	21		0	3	1	0
WAILUKU 386	A																		0			
ISLAND				73.7										6.27					0			
ISLAND OF HAWAII																						
HAWAII VOLCNS NP HD 54	R	71.9	57.4	64.7	1.5	77	3	53	12	0	0	0	0	5.73	- 1.47	1.35	7		0	16	3	1
HILO WSO AP 87	A	83.0	70.6	76.8	.9	87	29+	67	3	0	0	0	0	13.53	2.65	3.12	21		0	25	6	2
HUEHUE 92.1														3.32		1.24	19		0	8	1	1
KAINALIU 73.2		79.7	62.5	71.1		83	31+	59	2	0	0	0	0	9.89	3.24	15		0	13	6	3	
KAPOHO BEACH 93.11		86.6M	71.7	79.2M		89	30+	68	1	0	0	0	0	9.19	3.21	8		0	11	4	3	
KEAAU 92														16.95		5.43	8		0			
KONA (KAILUA) 68.3	A	86.2M	73.2M	79.7M		90	31	70	21	1	0	0	0	3.37				0				
KUKUIHALE HIC 199														10.40	4.73	3.85	17		0	15	5	2
KULANI CAMP 79		67.5M	54.6M	61.1M		72	31+	47	26	0	0	0	0	7.57	1.06	.9		0		6	2	
PAHALA 21	A													1.19	.43	7		0	3	0	0	

SEE REFERENCE NOTES FOLLOWING STATION INDEX

# MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

HAWAII AND PACIFIC  
AUGUST 1978

STATION	TEMPERATURE											PRECIPITATION											
	AVERAGE MAXIMUM	AVERAGE MINIMUM	AVERAGE	DEPARTURE FROM NORMAL	HIGHEST	DATE	LOWEST	DATE	DEGREE DAYS	NO. OF DAYS				TOTAL	DEPARTURE FROM NORMAL	GREATEST DAY	DATE	SNOW, SLEET		NO. OF DAYS			
										MAX.		MIN.						TOTAL	MAX. DEPTH ON GROUND	DATE	.10 OR MORE	.50 OR MORE	1.00 OR MORE
										30° OR ABOVE	32° OR BELOW	32° OR BELOW	32° OR BELOW										
HAWAII																							
PUUKOHOLA HEIAU 98.1	90.8	70.6	80.7		95	8	69	31		24	0	0	0	.71		.58	12	.0	0		1	1	0
SOUTH KONA 2.31	80.8	61.5	71.2		86	22	57	2		0	0	0	0	1.35		.53	29	.0	0		5	1	0
WAIKAE 500 88.2														25.16		5.60	17	.0	0		28	15	8
ISLAND			73.1											8.34				.0					

SEE REFERENCE NOTES FOLLOWING STATION INDEX

## MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

HAWAII AND PACIFIC  
AUGUST 1978

STATION		TEMPERATURE										PRECIPITATION														
		AVERAGE MAXIMUM	AVERAGE MINIMUM	AVERAGE	DEPARTURE FROM NORMAL	HIGHEST	DATE	LOWEST	DATE	DEGREE DAYS	NO. OF DAYS				TOTAL	DEPARTURE FROM NORMAL	GREATEST DAY	DATE	SNOW, SLEET			NO. OF DAYS				
											30° OR ABOVE	32° OR ABOVE	34° OR ABOVE	36° OR ABOVE					TOTAL	MAX. DEPTH ON GROUND	DATE	-1.0 OR MORE	-1.50 OR MORE	-1.00 OR MORE		
																									MAX.	MIN.
PACIFIC																										
EAST OF 180TH MERIDIAN																										
ATU'U																										
CANTON ISLAND		88.0M	75.7M	81.9M		90	28+	68	22					17.34		5.15	12		0	0		14	7	5		
FALEASAO VILLAGE													0	0	0				0	0		0	0	0		
JOHNSTON IS WSO AP		84.9	78.8	81.9	.7	86	29+	75	9				0	0	0	4.08	1.50	4.16	12		0	0	20	15	8	
LEONE																		2.19	30		0	0	6	1	1	
FRENCH FRIGATE SHOALS		84.7	71.4	78.1	-.8	87	24+	67	9				0	0	0	3.39	1.65	1.67	9		0	0	6	1	1	
MIDWAY SAND ISLAND																										
PAGO PAGO WSO AP		84.3	74.7	79.5	1.3	87	28	70	23+				0	0	0	16.46	9.06	5.82	10		0	0	13	6	4	
WESTERN PACIFIC ISL. NORTH OF 12 N																										
AGAT														22.86		3.65	13		0	0		26	16	9		
ANDERSEN AFB GUAM		83.1	76.6	79.9	-.2	86	31+	72	11				0	0	0	17.68	6.37	4.42	12		0	0	21	12	4	
CLARK AFB LUZON		82.4	73.5	78.0	-1.8	91	2	72	6+				2	0	0	29.69	12.27	4.83	13		0	0	25	18	8	
DEDEO														21.50		3.40	12		0	0		22	12	8		
GUAM NAS																										
GUAM WSO																										
INARAJAN AG STN		85.0	73.1	79.1	.0	89	14	71	30+				0	0	0	19.63	7.47	3.78	12		0	0	22	10	5	
INARAJAN - NASR														16.69		3.46	13		0	0		15	9	4		
MANGILAO		86.7	72.6M	79.7M		88	6+	65	12				0	0	0	18.09		3.33	13		0	0	20	9	5	
ROTA														17.83		3.82	13		0	0		19	11	6		
SAIPAN LORAN		M	M	M		88	31+						0	0	0											
UMATAC																										
WAKE ISLAND WSO AP		90.3	77.8	84.1	1.5	93	27	72	5				25	0	0	14.74	-1.26	3.80	9		0	0	23	10	5	
YIGO																5.09		2.20	10		0	0	8	4	2	
																21.19		1.03	30		0	0			7	
																		2.10	12		0					
CAROLINE AND MARSHALL ISLANDS																										
ENEWETAK																										
FALALOP I ULITHI ATOLL																										
KAPINGAMARANGI ATOLL																										
KOROR WSO		86.6	75.0	80.8	-.4	90	15+	72	22+				2	0	0	20.36	4.96	3.18	22		0	0	23	13	9	
KWAJALEIN MISSILE RGN		87.5	77.0	82.3	-.2	89	22+	72	31				0	0	0	5.48	-4.72	1.03	31		0	0	18	2	1	
LELE I KOSRAE																										
MAJURO WSO AP		86.8	76.2	81.5	.0	89	31+	74	29+				0	0	0	8.86	-2.92	1.83	28		0	0	19	7	2	
METALANIM		87.7	73.8	80.8		89	30+	72	28+				0	0	0	6.92		2.00	4		0	0	14	3	2	
MOKIL ATOLL																										
NGASANG-BABELTHUAP																										
PONAPE WSO		89.0	73.6	81.3	1.2	92	23	71	29+				17	0	0	13.62	-3.08	2.25	13		0	0	19	9	5	
SATAWAN ATOLL																										
TRUK MOEN I WSO AP		88.6	75.6	82.1	1.2	91	27+	72	2				10	0	0	14.37	.93	2.21	11		0	0	19	11	3	
WOLEAI ATOLL																										
YAP WSO AP		87.5	73.3	80.4	-.6	90	15	70	21+				1	0	0	18.52	3.38	3.70	16		0	0	18	11	7	

SEE REFERENCE NOTES FOLLOWING STATION INDEX



## DAILY PRECIPITATION

HAWAII AND PACIFIC  
AUGUST 1978

STATION	TOTAL	DAY OF MONTH																																			
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31					
HAWAII																																					
ISLAND OF KAUAI																																					
ANAHOLA 1114	A	2.49		.31	.02		.40	x	x		.36	.11	x		.04		.16							.32	.10	.03		x	x		.06	.36	.04	.12			
BAOYESHBOO STA 985	A	3.97	.11	.37	.10		.04	x	x		.35	.95	.13		.01	.05	.08		.01	.06	.01	x	x	.52	.28	.15	.04		.02	x	x	.02		.01			
EAST LAWA 934	A	6.43	.13	.62	.08		.36	x	x		.66	.16	.55	.17		.18	x		x	.52	.01		.81	.21	.28	.07		.25	x	x	.05	.02	.02	.12			
ELELE 927	A	.89	.03	.35	.06		.01	x	x		.08	.10	.04			.03	.01		x	x	.04		.04	.03	.04	T		.04									
HAUULA 1110	A	2.70	.03	.29			.78	x	x		.31	.15	.06		.03	x	x	.12		.21				.15	.06	.07		.02	x	x	.10	.28	.03	.04			
HALEMANAHU 1006	A	5.84	.08	.82	.14		.32	x	x	x	.78	.71	.18		.02	.14	x	x	.61		.19	x	x	.61	.21	.31	.21	.03	T	x	x	.06	.09	.05	.26		
HANALEI TUNNEL 1053	A	15.60																																15.60			
HUKIOU 945	A	.34									.22					.04					.08																
ILILILUA INTAKE 1050	A	20.87	.14	1.81	.30		.51	x	x		2.00	2.71	2.66		.03	.29	x	x	2.39	.59		.01	.65	.02		1.74	1.61	1.02	.54		.68	x	x	.37	.31	.28	
INTAKE WAINIHA PC 1086	A	11.97					4.85	x	x		2.80	x			.85	x		x	x	.58		x	x	.58		.92	1.39	x	.48		x	x					
KANALOHULULU 1075	A	2.18	.08	.12			.57	.09			.11	.35	.05		.20	.02	.02				.10				.05	.02						.03	.02	.19	.16		
KANEHA RESERVOIR 1092	A	1.77	.14	.62	.18		.92	x	x		1.10	1.03	.10		.03	.18	x	x	.54	.06		.11	.23	.10	x	x	.10		.42	.34		.07	x	x	.14	.28	.19
KARLEI 1112	A	1.77	.12	.02			.43	x	x		.24	.04			.02	.02	x	x	.17						.11	.05	.08		x	x		.05	.30	.05	.04		
KEKAHA 844	A	.19	.01				.15																														
KILAUHA 1134	A	4.53	.04	.07	.92		.14	.12	.10		.20	.20		x	.43						.03			.14	.96	.19	.48		.05			.43		.02			
KILAUHA POINT 1133	A	2.56	.05	.11	.37		.31	x	x		.21	.01			.02	x	x	.11				x	x	.35	.12			x	x	x	.04	.38	.05	.06			
KOLB 1033	A	.28					.13	.07			.13	.07																									
KOLB 936	A	6.00	.17	.68	.22		.15	x	x		.45	.72	.28		.01	.20	x	x	.83	.01		.01	.08	.08		x	.70		.37	.23	.37	.13	x	x	.03	.02	.02
KOLB LN (PARK) 940.1	A	1.27	.12	.22	.05		.09	.03	.02		.06	.13	.17		.07	x	x				.02	.01		.02	.01	.03		.01	.18	.02		.01	.03	.07			
KOLB PUKA 994	A	8.03	1.24	.82	x		x	x	x		2.32	.10			x	x	x	1.10						1.42	.48	x	x	x	x	x		.46	.09	x			
KUKULUA 935	A	1.71	.09	.37	.12		.02	x	x		.18	.21	.11		.10	x	x	.04		.05		x	x	.11	.08	.09	.06		.01	x	x	.02	.01	.04			
LIHUE VARIETY ST 10621	A	5.20	.05	.74	.10		.37	x	x		.64	.52	.15		.14	x	x	.23		.37		x	x	.27	.37	.28	.11		.07	x	x	.13	.23	.26	.13		
LIHUE 1020	A	1.98	.07	.32	.04		.12	x	x		.30	.05			.17	.05								.04	.22	.13			x	x	.07	.06	.06	.07			
LIHUE WSO AP 1020.1	A	1.19	.12	.07	.07		.01	.07	.06		.25	.01			T	T	.10		.01			.04	T	.02	.03	.18			.04	T	.04	.07	T				
MAKALEI 965	A	.21	.10				.02	.02	.01		.01	.01			.01		.03												.01								
MAKALEI 1026	A	.16															.05					.03	.08														
MAKALEI LANE CROSS 1083	A	2.87	.22	.22	.28		.14	.14			.44	.58			.14	.14		.07					.14	.07	.14		.07						.07	x			
MOLAA 1145	A	2.72					x	x	x		1.54	x	x	x	x	x	.46	x	x	x	x	x	x	.15	x	x	x	x	x	x	x	.57	x	x			
MOUNT MAKALEI 1047	A	.00																																			
NIU RIDGE 1035	A	.00																																			
N. WAILUA DITCH 1051	A	22.88	.21	3.27	.13		.68	x	x		2.12	3.26	.65		.06	.21	x	x	3.90	.86		.05	.53	.06	x	x	1.38		1.66	1.20	.47	.82	x	x	.26	.34	.20
N. WAILUA RIVER 1055	A	8.80					x	x	x		x	x	x		x	x	x		x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	9.80			
OWA WAINIHA 1115	A	11.50	.12	.85	.11		.79	x	x		.83	1.62	.12		.35	x	x	.12		.03		x	x	.56	4.03	.18	.08		.04	x	x	.04	.46	.04	1.14		
PRINCEVILLE RANCH 1117	A	7.39	.15	.33	.13		.66	x	x		.91	.55	.15		.12	x	x	.12		.08		x	x	1.20	.77	.43	.25		.18	x	x	.13	.56	.20	2.14		
PUEHU RIDGE 1040	A	.22																																			
PUIHI 1013	A	.86	.04	.18	.05		.03	x	x		.10	.12			.08	x					x	x	.05	.02	.15	.01			.02	x	x			.02	.02		
WAILUANA 830	A	1.95	.08	.73	.06		.05	x	x		.15	.18	.20		.01	.05	x	x	.01	.05		.01	x	.21	.04	.05	.01		.02	x	x	.01		.07	.04		
WAILUHI LOWER 1054	A	13.20	.11	1.36	.19		.42	.99	.22		5.0	1.94	.61		.02	.27	.13		.40	.49	.15		.47	.16	.28	.31	1.19	.72	.49	.59	.10	.06	.03	.17	.48	.34	
WAILUHI UPPER 1052	A	16.50	.16	1.59	.27		.54	1.04	.31		.51	2.69	.74		.01	.35	.16		.44	.58	.37		.01	.51	.01	.52	.32	.42	.64	.11	.09	.34	.28	.24	.33		
WAILUA 843	A	.21																																			
WAILUA KAI 1065	A	2.34	.02	.61	.04		.08	x	x		.29	.10	.05		.06	x	x	.14		.06	x	x	x	.07	.05	.15	.32		x	x	x	.06	.10	.02	.11		
WAILUA 947	A	.03																																			
WEST LAWA 931	A	2.48	.17	.55	.15		.08	x	x		.25	.26	.30		.02	.10	x	x	.04	.03		.10	.04	x	x	.12	.09	.07	.05		.02	x	x	.02	T	.05	
ISLAND OF OAHU																																					
ALPHA STADIUM-HAHAIONE	A	.65	.02	.05			.20	T			.08				T					.02	x	x	.13	.15													
BETTERMAN PUMPING STA	A	.62	.03	.04							.10	.01			T					.02	x	x	.28	x	x	x	x	x	x	x	.10		.04				
B. Y. LAKE 803.1	A	3.18	.08	.35	.07		.12	.11	.03		.40	.13	.02		.10	.36				.31	T		.05	.11	.45	.03	.05	.08		.05	.03		.22	.03			
CAMPBELL LND PK 702.5	A	.30									.16	T								.04			.05	T													
COCONUT ISLAND 840.1	A	2.55	.05	.37	.05		.07	x	x		.28	.16	.01		.01	x	x	.25		x	x	x	.57	.03	.04	T		x	x	x	.53	.03					
CUA PLANTATION 741	A	.94									.01	.48								.08		x	x	.16	.15												
HONOLULU OBSERV 702.2	A	.82									.50									.12			.07	.10									.02				
HONOLULU WSO 703 AP	A	.83	.05				.04	T			.12	.11							.13	T	.05	.02	T	.27					.01			x	.03	T			
KAEHA POINT 841.3	A	3.01					x	x	x		.48	.40			.04	x	x	x	x	.28		x	x	x	.11	x	x	x		.06	x	x	x	.03	x		
KAHANA 883	A	38.36									9.63	x	x		x	x	x	x	13.97	x																	

HAWAII AND PACIFIC  
AUGUST 1978SEE REFERENCE NOTES FOLLOWING STATION INDEX

# DAILY PRECIPITATION

HAWAII AND PACIFIC  
AUGUST 1978

STATION	TOTAL	DAY OF MONTH																															
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
HAWAII																																	
NAALEHU 14	A	3.22			.25			.50	1.28	.05							.26	.26	.15			.06				.05	.14			.22			
NAPOOPOO 28	A	3.82	x	x	x	x	x	.03	x	x	x	x	x	.40	x		x	x	x	x	x	2.83	x	x	x	x	x	x	x	.56	x	x	x
NOALIA 223		12.05	T	.10	.10	.07	.03	.11	.23	.44	.25	.06	.40	.55	.23	.27	.02	.60	2.01	.48	.01	.06	.25	2.47	.15	.06	1.01	.51	.80	.05	.12	.61	T
ORCHARD 2 24.1		5.15	.01	x	x	.15	.15	.05	.17	.66		.83	.01				.41	T	.02	.21	T	.01	.01	.28	T	4.41	x	x	x	x	.16	.03	T
ORCHARD LAND EST 91.5	A	14.62	x	x	x	1.74	x	x	x	x	x	6.17	x	x	x		x	2.30	x		x	x	x	x	x	x	x	x	x	x	x	x	
PAALU 217		6.84	.08	.05	.01			.16	.44	.01	.07	.35			.01		.80	3.25	.02			.35	.16	.03	.03	.50	.16	.16	.08	.01	.11		
PAALU 221		11.55	.02	.02	.11	T		.02	.43	.06	.08	.21	.04	.06	T	.93	5.34	.11			.12	.57	.05	.01	1.37	.44	.33	.03	.08	1.01			
PAHALA 21	A	1.19				.05		.43	.42	.01					.15		.02					.08							T		.03		
PAHOA 65		15.37	.15	.08	.05	.42	x	x	1.60	3.14	.10	.15	.14	x	x	.98	.48	.64	.09	x	x	2.60	2.50	.25	.31	.08	x	x	1.16	.31	.08	.06	
PAPAIAKU 144.1		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
PAPAIAKU MAUKA 140.1		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
PAPAIAKU MAUKA 140.1	A	31.20	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	31.20	
PULUHONUA 89		.71	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	
PULUHONUA MEIAU 98.1	A	2.85	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	2.85	
PUU LEHUA 73		1.35	.05					.10	.16						.02		.24					.09							.15	.01			
SOUTH KONA 2.31		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
UPBLU POINT USCG 159.2		1.59		T	.05	T	.09	.33	.20	T	T	T	.03	T	T	T	.54	.20	.01			.09	.03	T		.02	T						
WAIKAKA SCD 88.2		25.16	.32	.10	1.00	.35	.31	.80	3.14	.34	.30	.50	.51	1.01	.88	.08	.44	5.60	.21	.21	.40	1.37	1.20	.49	.20	1.78	1.74	.70	.03	.82	.55	.28	
WAIKAKA SCD 88.2		.97	.19		.08	x	x	.06				.15					.02							.04			x	x	.35	.08			

SEE REFERENCE NOTES FOLLOWING STATION INDEX

# DAILY PRECIPITATION

HAWAII AND PACIFIC  
AUGUST 1978

STATION	TOTAL	DAY OF MONTH																																
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
PACIFIC																																		
* * *																																		
EAST OF 180TH																																		
MERIDIAN																																		
ATU I	17.34	.26		.22	.02	.11	.01			.53	.03	2.80	1.62	5.15	.01		.02		.25	.15					.08	.12		.18	.02	.06	2.01	2.83	.85	
CANTON ISLAND	1.86			.16					.42	.05			.35		.18	.12							.03	.22	.19		.03			.14				
FALEASAO VILLAGE	26.04			.03	.11	.56	.32	.41				T	2.04	4.16	2.72	.79	.39		.04	.36		.82	.86	1.07	.87	2.70	1.05	T	.52	.07	3.04	.86	.06	
JOHNSTON IS WSO AP	4.08	.01	T	.08			.03	.05	.02	.15	.05	T			.08							T	.18	.07	.03	.18		.01	.45	.03	.05	.36	2.19	.05
LEONE																																		
FRENCH FRIGATE SHOALS	3.30		.13	.02			.06	.06		1.67	.35	.14	.04		.03				.01		.01		.04				.33	.41					.09	
HIGHWAY SAND ISLAND																																		
PAGO PAGO WSO AP	16.46	.26		.03	T	.01		.07	.68	.98	5.82	.44	2.24	T	.01	T		.28	.02	T		.10		.02		.01		.06	.20	T	.16	1.32	.40	3.35
* * *																																		
WESTERN PACIFIC ISL.																																		
NORTH OF 12 N																																		
AGAT	22.86	.80	.28		.30	.26	1.20	1.24	.72	.82	2.00	1.87	1.60	3.65	.48	2.00			.11	.22	1.20	.50	.10	.48	.52				.20	1.16	.10	.51	.63	
ANDERSEN AFB GUAM	17.68	.39	.70	T	.14	.25	.35	1.50	.21	1.74	1.61	4.42	.57	.19	.02	T	.71	.67	.65	.06	.35	.08	.43	.06		.57	.03	.78	.38	.05	.76			
CLARK AFB LUZON	29.69	T	T	.13	1.11	.94	.88	.57	.21	.40	.88	1.85	2.86	4.83	.93	2.79	.16	.03	T	.08	.37	.68	.75	.76	2.84	2.44	.60	.22	.02	1.33	.52	.30		
DEDCO	21.50	T	.19	.35	.06	.08	1.88	.46	1.16	1.40	2.08	1.50	3.40	3.20	.23	T	.05	.16	.83	1.44	.24	.56	.42	T	.06	.03	.19	.50	.14	.20	.56			
GUAM NAS																																		
GUAM WSO	19.63	.35	.30	.08	.27	2.04	.64	.64	.36	1.84	2.55	3.78	.78	.12	T	.48	2.05	.67	.02	.46	.22	.37		.22	T	.77	.27	.33	.01					
INAAJUAN AG STN	16.68	.37	.06		.06		.22	.38	.07	2.01	2.40	.88	2.35	3.46	.03	.07	.80	.40	.05	.45	.67	.01	.50	.82		.03		.48	.02					
INAAJUAN - NASA	18.08	.25	.30	.01	.10	.41	.82	.04	1.74	3.00	1.88	1.56	3.33	.21	.03	.19	.78	.11	.31	.75	.02	.31	.80	.01	T	.08	.03	.44	.36					
MANGILAO	17.83				.06	1.35	1.01	.48	.76	2.87	1.32	1.30	3.82	.25		.22		.82	.50	.56	.24	.38	.02	.70	.07		.09	.48	.25	.16				
ROTA																																		
SAIPAN LORAN				.48						3.80	1.83			.02	.04	.02			.20		.37	.78	.80		.02	1.00			.16	.52				
UMATA	14.74	.10	.04	.20	.06	.06	.68	1.53	.02	1.14	2.20	1.80	1.05	.21	.40	.20	.45	.50	.84	.58	.26	.17	.80	.12	.20	.13		.30	.48					
WAKE ISLAND WSO AP	5.08		.01	.07	.75	.72	.16	.01	.01	.05	.95	.08	.02	.05	.01	T	.04	.14		.08						.05	.04	.05	.42	1.00	1.03	.05		
YIGO	21.18	.60	.21	.10	.20	.02	2.00	2.00	1.88	1.85	1.80	.75	2.10	2.07	.50	.10	.10	.25	.07	.63	.30	.20	.46	*	.60		.23	.01	.58	.28	.58	.80		
* * *																																		
CAROLINE AND																																		
MARSHALL ISLANDS																																		
ENEWETAK																																		
FALALOP I ULITHI ATOLL																																		
KAPINGMARANGI ATOLL																																		
KOROE WSO	20.35	.21	.01	1.36	T	1.02	.97	.04	.46	2.44	.28	.38	1.16	1.09		.22	1.22	.11	.84	.50	1.08	.19	3.18	.32	2.22	.10	.66	.06	.14					
KWAJALEIN MISSILE RGN	5.48	.23	T	.17	.27	.18		.30	.13	.38	.17	.24	T	.29	.14	T		.18		.06	.03	.32		.01	.10	.67	.23	.06	.04	.23	1.03			
LELE I KOSRAE																																		
MAJURO WSO AP	9.86	.04	.01	.28	.17	.52	.03	.48	.04	1.06	.13	.07	.11	.68	.27		.31				.08	.19		.52	.56	.34	.15	.11	1.83	.70	.18	T		
METILANIM	6.92	.65	.11	.01	2.00	.03	T	T	.01	.48	T	.01	.06	.04	1.80	.10	.05	.03	.15	.20	.01	.25	.15	T	T	.20	.18	.12	.05	.04	.12	.06		
POKIL ATOLL																																		
NGASANG-BABELTHUAP																																		
PONAPE WSO	13.62	.03	.03	.33	.51	1.21	.04		.24	.41	1.24	1.10	.12	2.25	.23	.25	.04		.08		.35	.80	T	.27	.22	.03	1.88	.18	.01		.03	.80	.82	
SATAHAN ATOLL																																		
TRUK MOEN I WSO AP	14.37	.64	.84	1.86	.61	.33	.65	1.63	.03		2.21	.84	.21	.85	.06	.56	.12	T		.40	.04				.16	.35	.04	.48	T		.26	.88		
WOLEAI ATOLL																																		
YAP WSO AP	18.52	.04	.96	1.84		.24	.98	.34	.43	.35	.04	.26	1.88	.15		.03	3.70	.55	.04	1.36	1.31	.51	1.40		.06	1.64		.30		.01				

SEE REFERENCE NOTES FOLLOWING STATION INDEX

## DAILY TEMPERATURES

HAWAII AND PACIFIC  
AUGUST 1978

STATION		DAY OF MONTH																															AVERAGE
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
HAWAII																																	
ISLAND OF KAUAI																																	
KANALOHULUMULU 1075	MAX MIN	70 56	75 60	74 57	73 54	75 54	73 57	72 59	68 62	72 68	73 58	70 58	72 55	72 51	74 56	75 55	77 54	69 58	75 57	74 58	73 59	74 57	72 60	67 61	71 52	77 54	74 52	74 55	70 56	77 56	75 58	77 57	73.0 56.9
KILAUEA POINT 1133	MAX MIN	84 73	84 73	85 73	84 71				83 75	81 75	85 75	86 72		86 74	86 75	86 74	87 74	86 74	86 74		87 73	79 71	87 73	81 70				86 72	86 72	86 75	84 76		
KOLOA LN (MAK) 940.1	MAX MIN	85 75	86 73	86 74	87 74	88 73	87 74	86 71	86 70	86 75	86 70	86 73	87 73	87 74	89 77	88 74	86 75	87 74	87 74	88 76	87 74	87 75	88 76	87 73	86 75	86 76	87 74	87 73	86 74	87 72	86 71	86 73	86.7 73.9
LIHUE WSO AP 1020.1	MAX MIN	84 72	84 71	82 72	85 73	85 73	86 74	82 74	80 75	86 75	86 74	85 73	85 72	86 74	86 76	87 75	86 74	85 75	86 74	85 76	80 73	80 75	81 76	86 77	81 77	86 71	85 77	84 77	86 71	86 72	85 71	87 76	84.7 74.1
NIU RIDGE 1035	MAX MIN	85 64	84 64	87 65	85 66			79 64	80 64	79 64	87 65	89 65		88 64	85 66	88 64	88 65	87 63			90 64		86 65	87 65	85 65	86 60			87 65	85 64	89 65	87 66	85.9 64.4
WAIHAI LOWER 1054	MAX MIN	73 68	72 67	74 65	72 68	74 69	72 68	74 68	75 69	76 68	74 69	77 66	77 66	76 67	74 68	76 68	75 66	79 66	78 66	80 67	79 69	80 69	75 68	79 68	75 68	77 68	80 67	81 67	80 66	81 67	80 69		76.5 67.4
WAIKOA 947	MAX MIN	85 69	88 64	89 66	87 69	89 64	90 69	89 68	88 66	82 71	89 66	90 59	85 67	89 66	86 69	89 68	94 65	90 69	89 62	88 61	90 62	88 69	88 68	87 74	82 72	90 71	89 72	90 70	88 72	93 71	92 70	90 71	88.5 67.8
ISLAND OF OAHU																																	
ALOHA STADIUM-HALAWA	MAX MIN	85 72	83 72	87 72	88 73			87 73	87 74	80 74	85 74	85 72	86 72	88 73	87 74	87 73	86 72	86 72			86 71	84 73	85 73	86 74	85 71	85 73		86 73	86 70	86 74	87 76	85.7 72.9	
B Y U LAIE 903.1	MAX MIN	86 72	85 73	86 74	86 74	86 73	85 75	84 74	83 75	85 75	85 75	86 74	86 76	86 76	87 75	86 72	85 74	88 74	86 73	86 74	93 75	86 74	85 73	87 75	86 75	86 75	85 75	87 75	86 75	85 77	87 77	86.0 74.2	
HONOLULU OBSERV 702.2	MAX MIN	90 69	85 70	91 69	90 72	91 71	91 74	88 73	90 73	83 72	88 73	89 72	90 69	92 69	92 69	91 68	90 72	90 67	90 67	91 69	91 70	90 69	86 70	89 73	89 72	88 71	90 69	90 69	90 69	91 69	90 72	92 76	89.6 70.5
HONOLULU WSO 703 AP	MAX MIN	85 72	90 72	90 72	89 73	88 73	86 73	89 73	83 73	87 73	87 73	88 72	90 73	91 73	88 73	89 72	87 73	88 71	88 73	85 72	87 72	88 73	87 74	87 73	88 74	89 72	88 72	89 73	89 72	90 75	90 77	88.0 72.9	
KANEIHE MAUKA 781	MAX MIN	82 73	81 74	84 73	84 73	83 74	80 72	79 73	80 68	77 69	81 74	81 71	83 71	82 73	83 75	82 74	83 74	82 74	81 73	82 74	81 73	80 74	81 73	80 74	82 74	80 74	82 74	81 74	81 73	82 76	81.4 73.3		
MANOA LYON ARBORETUM	MAX MIN	76 68	77 69	83 70	84 70	84 70	81 70	77 68	79 70	75 70	78 69	76 68	82 68	84 69	84 70	86 71	83 69	81 69	81 69	82 67	81 70	80 70	75 69	81 68	80 70	78 69	77 69	77 69	83 70	85 70	78 71	80 72	80.3 69.4
OPAEULA 870	MAX MIN	80 68	80 69	80 70	82 71	83 71	80 71	79 70	82 70	82 69	82 70	80 69	79 69	81 68	80 71	82 69	80 69	80 69	80 69	81 67	82 68	80 70	80 71	80 70	79 71	79 70	78 68	80 71	81 72	81 71	81 72	80.5 69.8	
WAIALEE 896.3	MAX MIN	85 70	83 71	85 71	84 73	85 72	84 73	83 73	82 73	80 73	84 75	83 73	84 73	84 74	85 75	86 72	85 74	85 73	86 74	84 74	85 72		84 70	83 72	86 72	83 74	85 67	85 74	83 73	82 70	86 74	84 76	84.0 72.7
WAIALUA 847	MAX MIN	86 68	84 66	89 68	90 70	86 70	84 68	82 70	88 70	80 68	85 66	84 66	86 66	86 66	90 66	89 64	89 67	87 64	84 64	84 66		83 66	85 70	86 69	83 68	85 70	82 66	82 64	84 65	87 67	89 71	85.7 66.8	
WAIKIKI 717.2	MAX MIN	90 73	88 74	89 70	89 74	89 73	88 73	86 75	88 74	85 75	88 73	87 73	89 72	90 72	90 74	92 74	89 71	89 73	89 72	89 73	90 73	88 74	87 75	87 73	88 74	88 73	89 74	88 74	88 74	89 73	90 76	91 77	88.6 73.5
ISLAND OF MOLOKAI																																	
MOLOKAI AP 524	MAX MIN	88 70	84 71	89 72	89 69	92 70	88 70	86 73	87 75	88 73	86 72	88 69	88 69	91 68	90 69	92 79	92 68	88 72	88 70	89 72	89 74	88 73	90 72	90 70	88 71	86 72	86 70	87 70	89 70	91 75	89 75	88.5 71.6	
ISLAND OF LANAI																																	
LANAI AIRPORT 656	MAX MIN	84 62	80 66	85 68	82 68	83 67	85 67	83 70	83 67	86 67	83 64	83 67	83 65	83 67	83 66	83 65	83 68	83 67	83 65	83 66	82 68	84 69	84 66	82 65	81 66	82 67	83 67	82 66	83 67	79 67	86 70	83.0 66.9	
LANAI CITY 672	MAX MIN	76 66	78 67	78 66	78 66			80 70	75 69	75 68	76 63	77 67		80 68	80 66	79 68	75 67	77 67			79 69	79 69	78 68	80 65	78 65	78 68	76 68	78 70	79 70	80 71	77 71	77.9 67.7	
ISLAND OF MAUI																																	
HOLEAKALA R 5 338	MAX MIN	64 42	66 47	68 50	66 52	70 52	62 45	66 55	67 54	70 52	70 46	65 42	63 41	62 45	66 44	64 47	66 51	63 43	65 44	64 44	64 45	64 48	63 49	70 52	68 50	69 50	70 52	71 49	71 51	69 49	68 53	68 55	66.5 48.4
HANA AIRPORT 355	MAX MIN	83 73	82 71	85 72	83 72	85 72	82 71	84 74	81 74	83 72	83 73	84 71	83 72	83 72	85 71	85 72	84 71	80 71	83 71	83 72	84 71	82 72	84 72	82 72	84 72	85 75	79 72	82 71	80 69	82 73	84 73	86 77	83.2 72.2
KAAHAPALI AP 453.1	MAX MIN	85 68	84 68	87 69	85 71	87 70	87 70	88 73	85 74	86 74	86 70	85 69	86 69	84 68	88 72	87 69	86 72	84 73	89 73	90 71	90 73	89 73	88 74	89 73	89 70	87 71	85 71	87 69	89 72	90 75	90 78	90 71	87.1 71.2
KAHULUI WSO 398 AP	MAX MIN	88 68	88 73	89 70	93 72	89 70	89 74	88 76	89 77	88 76	88 76	91 69	88 74	90 74	92 73	90 76	89 75	89 75	89 69	91 71	89 75	89 74	90 67	90 74	89 67	86 75	86 75	86 75	87 73	91 73	91 75	89.2 73.2	
KAILUA 446	MAX MIN	78 67	78 67	79 69	80 70			74 69	70 69	79 69	80 73	79 68		79 69	79 68	76 70	79 70	78 69	78 69	78 69	79 68	79 68	79 67	79 67	79 67	79 67	78 66	79 68	80 70	79 74	78 74	78.2 68.9	
KEAWAKAPU BEACH 260.2	MAX MIN	91 65	90 66	91 69		95 71	92 66	92 72	86 73	86 70	93 66	92 67	89 67	91 69	93 66	92 65	93 66	93 65	91 66	93 65	93 65	92 67	88 67	92 67	88 67	91 67	87 69	90 68	90 73	92 72	91 74	91.4 69.0	
KULA SANATORIUM 267	MAX MIN	75 57	72 57																														

SEE REFERENCE NOTES FOLLOWING STATION INDEX



# DAILY TEMPERATURES

HAWAII AND PACIFIC  
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1978

STATION		DAY OF MONTH																															AVERAGE				
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31					
HAWAII																																					
UH AGRI RES CNTR 324.5	MAX MIN														78 59	74 57		77 59	74 61	78 61		76 59	76 60	77 59		77 60	77 61	76 59		76 60	76 60	79 59		79 61	79 62	79 62	80 65
• • •																																					
ISLAND OF HAWAII																																					
HAWAII VOLCNS NP HQ 54	MAX MIN	72 55	72 56	77 57	76 58	73 57	72 55	74 61	69 60	67 56	70 55	69 57	69 53	70 58	72 59	71 54	74 59	74 59	70 55	73 56	68 56	73 59	74 59	73 59	65 55	72 58	72 57	72 58	73 60	75 60	75 58	72 59	71.9 57.4				
HILO WSO AP 87	MAX MIN	82 68	84 68	84 67	87 72	85 71	82 70	77 73	81 72	81 72	84 69	83 70	82 69	83 72	83 72	84 70	85 71	83 71	85 68	84 68	83 68	83 71	83 72	82 70	81 71	78 72	82 72	82 72	84 73	87 74	85 70	83 72	83.0 70.6				
KAINALIU 72.2	MAX MIN	80 61	79 59	81 60	82 62	81 63	76 62	79 63	80 65	80 64	78 63	78 63	78 62	81 62	81 60	79 60	78 63	78 61	78 63	81 61	79 62	80 61	82 65	78 61	80 64	75 65	81 63	80 61	83 65	81 63	81 64	83 66	79.7 62.5				
KAMUELA 192.2	MAX MIN	75 61	74 63	75 64	76 64			76 62	78 65	73 62	73 61	72 61		78 63	75 62	72 64	73 63	73 61				76 63	74 63	75 63	73 62	75 63			75 62	79 64	75 65	75 65	74.8 62.9				
KAPOHO BEACH 93.11	MAX MIN	83 68	86 70	87 70	87 73	89 71	87 70	87 72		84 73	87 74	85 69	86 71	87 75	87 75	89 72	86 70	87 72	86 70	87 72	87 70	88 70	87 71	83 69	86 74	87 75	88 73	86 74	85 71	88 72	87 72	89 72	86 73	86.6 71.7			
KONA (KAILUA) 68.3	MAX MIN	85 72	86 72	87 72	87 74			88 72	86 75	84 73	85 72	85 73		87 72	86 72	85 75	85 73	85 73				86 70	87 73	86 73	87 73	85 74			87 73	87 75	87 75	90 78	86.2 73.2				
KULANI CAMP 79	MAX MIN	72 52		71 57		67 50	67 58	69 59	68 58	69 59	67 53	64 54	60 52		68 51	68 48	69 55	63 52	62 53	67 57	68 62	66 52	67 56	69 53	68 52	69 60	69 47	67 52	68 61	69 59		72 52	67.5 54.6				
MAUNA KEA OBS 111.2	MAX MIN																																				
MAUNA LOA SLOPE OBS	MAX MIN	55 38	55 34	52 36	55 37	57 38	55 41	50 41	53 40	55 37	57 40	58 42	57 41	56 41	55 40	61 40	58 40	51 39	51 35	52 36	54 36	51 38	54 36	52 36	54 37	58 39	59 40	55 38	52 40	48 38	50 36	51 36	54.2 38.3				
MOUNTAIN VIEW 91	MAX MIN																																				
NAALEHU 14	MAX MIN	80 65	79 64	83 63	83 67	78 67	75 56	83 69	78 68	75 69	78 66	80 66	78 67	78 68	82 68	80 64	82 65	80 66	77 66	78 66	77 66	83 66	84 71	82 71	77 68	81 67	77 65	78 65	83 63	81 70	82 71	84 73	79.9 67.1				
OOKALA 223	MAX MIN	79 67	79 70	81 69	81 68	81 69	80 69	79 68	79 69	79 70	80 70	80 68	80 67	82 68	80 71	80 69	79 70	80 69	80 68	81 69	81 69	81 71	80 69	81 70	80 70	80 70	79 68	78 68	75 70	80 70	82 72	82 74	80.0 69.3				
OPIHIHALE 2 24.1	MAX MIN	81 61	83 61	84 64	84 66	80 65	81 65	81 65	79 65	81 67	76 66	80 63	81 64	82 64	82 64	78 65	81 63	82 65	80 64	82 65	82 63	83 67	84 65	83 68	79 66	81 65	81 66	82 66	82 68	83 66	84 69	84 66	81.5 65.1				
PUUKOHOLA HEIAU 98.1	MAX MIN	92 70	90 70	90 70	91 70	92 69	95 69	93 74	87 74	94 71	94 70	91 70	91 69	92 69	90 69	91 69	90 73	89 73	88 70	88 70	91 69	90 70	91 69	89 72	91 72	89 70	88 70	91 70	92 71	92 71	91 73	91 69	90.8 70.6				
SOUTH KONA 2.31	MAX MIN	80 58	81 57	83 58	84 62	82 60	78 58	83 67	76 65	76 63	77 62	80 64	78 65	84 62	84 60	81 58	79 62	80 59	79 60	79 59	77 60	83 61	86 61	85 64	81 64	81 63	79 58	77 61	84 65	81 64	82 59	82 67	80.8 61.5				
UPOLU POINT USCG 159.2	MAX MIN	85 72	85 71	87 71	87 73	86 71	85 71	85 72	86 72	85 72	85 71	86 70	86 69	88 73	86 73	87 71	87 70	84 71	84 70	85 72	86 71	86 70	85 72	86 71	86 73	87 75	86 72	86 69	84 72	87 74	87 74		85.8 71.6				

SEE REFERENCE NOTES FOLLOWING STATION INDEX

# DAILY TEMPERATURES

HAWAII AND PACIFIC  
AUGUST  
1978

STATION		DAY OF MONTH																															AVERAGE
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
PACIFIC																																	
■ ■ ■																																	
EAST OF 180TH MERIDIAN																																	
CANTON ISLAND	MAX MIN	89 78	89 77	86 74	89 76	89 74	90 80	88 80	88 81	89 80	89 80	87 80	89 80	88 74	88 71	88 74	88 73	88 74	89 74	88 74	89 68	85 73	82 76	87 79	88 79		90 74	88 72	88 74	88 76	88 76	88.0 75.7	
JOHNSTON IS WSO AP	MAX MIN	84 78	84 80	84 78	84 80	84 80	84 80	85 77	86 77	85 75	84 80	85 80	86 80	86 80	85 78	84 81	85 80	86 79	85 76	86 81	85 80	85 79	86 78	85 79	85 80	85 77	86 80	85 78	86 76	83 78	85 78	84.9 78.8	
LEONE	MAX MIN																																
FRENCH FRIGATE SHOALS	MAX MIN	85 72	87 71	84 71	87 72	87 71	87 74	87 72	87 72	78 67	82 71	85 68	82 70	84 71	86 74	85 72	85 73	93 72	84 72	83 73	83 72	84 70	84 72	86 71	87 71	86 68	83 74	84 74	85 71	85 71	86 71	85 70	84.7 71.4
MIDWAY SAND ISLAND	MAX MIN																																
PAGO PAGO WSO AP	MAX MIN	85 73	85 71	85 78	85 79	86 76	85 76	84 76	82 75	85 75	80 70	84 70	80 73	85 71	85 78	85 78	86 75	85 77	82 78	85 77	85 78	85 77	86 72	85 70	85 73	85 77	85 74	85 75	87 76	82 73	82 74	81 71	84.3 74.7
■ ■ ■																																	
WESTERN PACIFIC ISL. NORTH OF 12 N																																	
ANDERSEN AFB GUAM	MAX MIN	84 78	85 79	85 80	86 78	85 79	85 78	82 76	81 76	80 76	81 74	79 72	82 75	78 75	86 77	85 78	83 74	82 74	83 75	84 76	84 75	82 76	80 76	85 78	84 77	84 78	85 78	81 76	81 76	82 75	86 77	86 77	83.1 76.6
CLARK AFB LUZON	MAX MIN	90 75	91 75	88 75	81 73	82 72	81 72	82 73	84 73	81 73	77 73	75 73	77 73	73 73	79 73	77 73	86 73	88 75	88 73	84 75	88 75	81 73	84 73	82 73	81 75	81 73	82 73	81 75	86 73	81 73	79 73	84 73	82.4 73.5
GUAM NAS	MAX MIN																																
GUAM WSMO	MAX MIN	87 74	87 74	87 76	88 76	87 75	86 71	84 73	84 74	80 74	83 72	78 71	83 72	78 73	89 72	87 71	87 74	87 76	86 72	85 73	86 73	86 72	85 75	82 74	88 73	87 71	87 71	87 71	83 74	81 74	85 71	86 75	85.0 73.1
INARRAJAN - NASA	MAX MIN	88 74	87 73	87 73	88 73	88 72	88 71	86 72	87 70	87 70	84 67	84 66	85 65	85 65	87 67	87 67	87 67	87 67	87 76	87 75	87 77	87 76	87 73	86 77	87 73	87 77	87 74	87 74	87 74	87 73	87 73	87 73	86.7 72.6
SAIPAN LORAN	MAX MIN			86					88 79	88 75	88 75	88 74			87 75	87 75	86 75	87 78			84 75	82 74	87 73	88 78		88 78				84 76	88 76		
WAKE ISLAND WSO AP	MAX MIN	89 78	90 77	87 75	88 73	90 72	90 79	90 81	88 77	91 77	91 75	89 75	90 80	91 77	91 80	91 80	91 80	91 78	91 78	91 78	91 78	91 78	91 80	91 80	91 80	92 80	92 80	93 80	90 76	90 75	88 74	90 76	90.3 77.8
■ ■ ■																																	
CAROLINE AND MARSHALL ISLANDS																																	
ENWETAK	MAX MIN																																
FALALOP I ULITHI ATOLL	MAX MIN																																
KAPINGMARANGI ATOLL	MAX MIN																																
KOROR WSO	MAX MIN	88 75	84 75	83 73	90 76	87 74	89 75	88 75	87 75	86 72	88 76	89 75	83 73	87 75	89 76	90 76	89 74	86 74	82 75	87 77	85 73	87 77	80 72	88 77	87 73	87 73	82 74	86 74	87 76	88 76	88 78	88 78	86.6 75.0
KWAJALEIN MISSILE RGN	MAX MIN	87 74	88 79	87 74	86 77	86 77	88 79	87 77	88 78	89 75	87 77	89 74	86 78	87 76	88 76	88 80	88 79	88 78	88 79	89 79	88 80	88 76	88 80	88 78	88 79	88 75	85 74	88 78	88 76	88 74	86 72	86 72	87.5 77.0
LELE I KOSRAE	MAX MIN																																
MAJURO WSO AP	MAX MIN	87 79	87 75	84 76	85 75	87 75	87 75	86 75	86 78	86 76	86 75	87 76	87 75	87 75	88 76	87 80	87 78	86 76	88 78	88 80	88 77	89 77	88 75	85 75	86 75	87 74	87 75	88 76	85 75	87 77	86 76	89 76	86.8 76.2
METALANIM	MAX MIN	83 72	85 75	89 76	86 75	88 74	87 75	89 75	89 74	87 74	86 73	88 74	87 72	89 76	89 73	87 74	88 75	88 76	89 72	88 72	89 73	88 74	87 73	86 75	89 73	88 73	87 72	89 73	88 72	87 73	89 74	88 75	87.7 73.8
PONAPE WSO	MAX MIN	89 74	88 75	90 74	85 74	90 73	90 72	90 75	90 74	89 74	91 73	86 74	89 73	85 73	88 73	89 74	90 76	91 78	90 77	90 76	91 76	90 73	82 73	86 73	91 71	92 73	91 72	85 73	89 73	90 73	91 72	89 73	89.0 73.6
SATAWAN ATOLL	MAX MIN																																
TRUK MOEN I WSO AP	MAX MIN	86 74	89 72	86 73	89 76	88 75	85 76	88 74	89 76	90 77	91 76	88 75	87 74	90 77	85 74	90 77	90 76	90 77	90 79	89 79	89 75	89 78	89 76	90 75	88 75	89 75	88 75	91 76	89 75	90 75	89 76	86 75	88.6 75.6
WOLEAI ATOLL	MAX MIN																																
YAP WSO AP	MAX MIN	89 76	83 74	84 72	89 70	87 75	88 72	87 73	88 75	87 72	89 78	89 75	84 72	89 74	89 78	90 75	88 73	87 73	88 75	87 73	83 74	89 70	87 72	87 72	87 75	88 72	88 72	87 73	88 71	88 71	89 72	89 72	87.5 73.3

SEE REFERENCE NOTES FOLLOWING STATION INDEX

# EVAPORATION AND WIND

HAWAII AND PACIFIC  
AUGUST 1978

STATION	DAY OF MONTH																															TOTAL OR AVG.	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
HAWAII																																	
ISLAND OF KAUAI																																	
LIHUE WSO RP 1020.1	EVAP	.38	.35	.32	.26	-	-	.44	.27	.14	.30	.39	.36	.38	.39	.43	.41	.43	.43	.39	.35	.40	.26	.37	.19	.18	.42	.32	.35	.35	.22	.31	11.008
	WIND	207	219	146	120	194	219	230	244	187	199	202	140	120	135	220	130	155	151	190	179	193	243	218	177	232	213	193	155	142	195	174	5719
	MAX	85	85	86	85	85	84	83	80	81	83	84	85	86	86	87	88	87	88	86	86	85	77	84	84	83	85	85	85	85	86	86	84.7
	MIN	66	67	68	68	68	69	68	68	68	65	65	65	67	66	66	67	66	65	65	67	66	67	67	66	67	67	65	66	67	69	69	66.4
ISLAND OF OAHU																																	
HONOLULU OBSERV 702.2	EVAP	.35	.30	.35	.33	.34	.37	.30	.28	.15	.30	.30	.30	.30	.30	.45	.27	.45	.40	.33	.47	.36	.30	.38	.40	.45	.45	.45	.43	.37	.60	11.13	
	WIND	34	28	26	22	33	37	33	33	21	36	36	27	26	26	32	27	26	30	28	28	32	32	32	32	31	32	33	31	24	25	43	936
	MAX	90	87	92	92	92	92	90	91	80	91	92	93	90	90	90	95	93	93	88	90	91	90	90	90	90	90	90	91	92	86	94	90.5
	MIN	69	69	69	71	71	67	68	71	69	68	68	69	70	70	69	68	69	67	68	69	69	70	70	70	69	70	70	67	68	70	70	69.2

SEE REFERENCE NOTES FOLLOWING STATION INDEX

# EVAPORATION AND WIND

HAWAII AND PACIFIC  
AUGUST 1978

STATION	DAY OF MONTH																															TOTAL OR AVG.	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
PACIFIC																																	
■ ■ ■ EAST OF 180TH MERIDIAN																																	
JOHNSTON IS WSO AP	EVAP WIND MAX MIN	.28 205 33 90 73	- 206 43 90 72	.31 192 144 87 75	.34 189 239 88 73	.38 209 261 87 73	.37 198 248 87 71	.33 218 206 87 72	.33 174 147 88 73	.36 147 223 90 75	.09 223 92 90 74	.45 221 89 92 72	.41 195 89 91 72	.36 169 157 91 72	.27 177 184 93 72	.24 216 217 93 72	.27 184 242 93 70	.69 163 189 87 75	.29 110 171 80 74	.29 100 128 92 74	.34 193 137 94 74	.07 202 95 97 75	.08 198 95 99 77	.28 154 114 93 79	.31 129 162 90 77	.26 185 71 92 76	.37 249 80 92 76	.28 250 80 91 75	.32 113 49 91 71	.30 179 107 88 71	- 238 87 88 71	.47 201 62 86 72	9.778 5787
PAGO PAGO WSO AP	EVAP WIND MAX MIN	.09 33 90 73	.20 43 90 72	.16 144 87 75	.34 239 88 73	.31 261 87 73	.33 248 87 71	.23 206 87 72	- 147 88 73	-.11 39 90 75	- 114 92 74	- 48 89 72	- 56 89 74	- 61 91 72	.43 157 184 93 72	.22 217 242 93 72	.01 189 87 70	.18 163 189 87 75	.16 110 171 80 74	.24 100 128 92 74	.21 193 137 94 74	.20 202 95 97 75	.17 198 95 99 77	.30 154 114 93 79	.22 129 162 90 77	.22 185 71 92 76	.15 249 80 92 76	.15 250 80 91 75	.11 113 49 91 71	.46 179 107 88 71	- 238 87 88 71	- 201 62 86 72	6.728 3938
■ ■ ■ WESTERN PACIFIC ISL. NORTH OF 12 N																																	
GUAM WSMO	EVAP WIND MAX MIN	.27 83 92 71	.26 110 90 72	.28 105 89 72	.24 111 88 71	.19 106 88 71	.25 88 88 70	.10 61 83 71	.18 27 82 70	.09 59 82 71	- 48 81 70	- 67 83 70	- 77 84 70	.16 77 84 69	.13 39 93 69	.17 22 89 72	.28 113 89 71	.14 69 86 72	.28 62 85 72	.19 59 82 69	.25 83 89 70	.04 53 86 72	.18 82 87 70	.09 86 94 72	.21 71 93 70	.27 52 90 70	.15 38 90 72	.23 62 90 70	.16 67 84 70	.21 85 89 71	.28 31 79 72	.24 74 86 72	6.108 2156
■ ■ ■ CAROLINE AND MARSHALL ISLANDS																																	
YAP WSO AP	EVAP WIND MAX MIN	.15 26 88 73	.24 42 84 71	.18 52 76 69	.18 72 92 67	.10 37 85 71	.08 44 88 69	.27 79 89 69	.18 83 90 70	.29 81 90 70	.20 53 94 70	.24 110 69 70	.16 124 80 70	.32 199 92 68	.24 105 92 70	.31 41 95 72	- 30 80 70	.12 78 90 69	.28 53 90 72	.42 85 82 70	.33 49 76 68	.08 64 94 69	.25 33 82 69	.17 52 92 68	.23 40 90 71	.14 36 91 72	.14 55 91 69	.25 55 92 70	.26 50 92 71	.20 76 87 71	.23 69 93 71	.24 36 93 70	6.708 2009

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# STATION INDEX

HAWAII AND PACIFIC  
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STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES				OBSERVER
								TEMP.	PRECIP.	EVAP.	SPECIAL (SEE NOTES)	
HAWAII												
ISLAND OF KAUAI												
ALEXANDER RESV 983	0140	02	KOLOA	2	21 57	159 32	1610				C	MC BRYOE SUG CO LTO
ANAHOLA 1114	A 0145	01	KAWAIIHAU	1	22 08	159 18	180		7A		C	LIHUE PLANTATION CO LTO
BRYOESWOOD STA 985	A 0240	02	KOLOA	2	21 56	159 32	720		7A			MC BRYOE SUG CO LTO
EAST LAWA 934	A 0456	02	KOLOA	2	21 55	159 30	440		7A			MC BRYOE SUG CO LTO
ELEELE 927	A 0470	02	KOLOA	2	21 54	159 35	150		6A			MC BRYOE SUG CO LTO
HALAULA 1110	A 0935	01	KAWAIIHAU	1	22 07	159 19	253		7A			LIHUE PLANTATION CO LTO
HALENANAO 1006	A 1038	02	LIHUE	2	21 58	159 26	490		8A			LIHUE PLANTATION CO LTO
HANAHANAPUNI 1055.2	1140	02	KAUAI	2	22 03	159 25	600				C	LIHUE PLANTATION CO LTO
HANAIEI TUNNEL 1053	A 1170	01	KAWAIIHAU	1	22 05	159 28	1218		MO			U S GEOLOGICAL SURVEY
HUKIPO 945	2161	03	WAI'MEA	3	21 59	159 41	800		8A			KEKAHA SUGAR CO LTO
ILIILILUA INTAKE 1050	A 2222	02	LIHUE	2	22 02	159 28	1050		VAR			LIHUE PLANTATION CO LTO
INTAKE WAINIHA PC 1086A	2227	01	HANAIEI	1	22 09	159 34	690		WI			MC BRYOE SUG CO LTO
KANALOHLULU 1075	3099	03	WAI'MEA	3	22 08	159 40	3600	7A	7A		C	STATE DIVISION OF PARKS
KANEHA RESERVOIR 1092	A 3104	01	KAWAIIHAU	1	22 08	159 23	830		7A			LIHUE PLANTATION CO LTO
KAPAA STABLES 1104	3159	01	KAWAIIHAU	1	22 05	159 20	175				C	LIHUE PLANTATION CO LTO
KEALIA 1112	A 3982	01	KAWAIIHAU	1	22 06	159 19	9		7A			LIHUE PLANTATION CO LTO
KEKAHA 944	4272	03	WAI'MEA	3	21 58	159 43	9		8A		C	KEKAHA SUGAR CO LTO
KILAUEA 1134	A 4561	01	HANAIEI	1	22 13	159 25	320		7A		C	NICK RAPOZO
KILAUEA POINT 1133	4568	01	HANAIEI	1	22 14	159 24	180	7A	7A			MRS ELIZABETH MACIOLEK
KOLO 1033	4735	03	WAI'MEA	3	22 04	159 46	36		7A			KEKAHA SUGAR CO LTO
KOLOA 936	A 4742	02	KOLOA	2	21 55	159 28	240		8A			MC BRYOE SUG CO LTO
KOLOA LN (MAK) 940.1	4748	01	KAUAI	2	21 52	159 27	52	7A	7A			AUSCG LORAN STATION
KOLOA MAUKA 994	A 4750	02	KOLOA	2	21 57	159 29	640		7A			MC BRYOE SUG CO LTO
KUKUIULA 935	A 4950	02	KOLOA	2	21 54	159 30	100		6A			MC BRYOE SUG CO LTO
LIHUE VARIETY ST 10621A	5560	02	LIHUE	2	22 01	159 23	380		7A		C	LIHUE PLANTATION CO LTO
LIHUE 1020	A 5575	02	LIHUE	2	21 59	159 22	207		7A			LIHUE PLANTATION CO LTO
LIHUE W50 AP 1020.1	R 5580	02	LIHUE	2	21 59	159 21	103	8A	8A	7A	J	NATL WEATHER SERVICE
MAKANALI 965	A 5864	03	WAI'MEA	3	21 55	159 38	140		7A			OLOKELE SUGAR CO
MANA 1026	6082	03	WAI'MEA	3	22 02	159 46	20		8A			KEKAHA SUGAR CO LTO
MOHIHI UPR CROSS 1083	A 6433	01	WAI'MEA	3	22 07	159 36	3500		MIO			U S GEOLOGICAL SURVEY
MOLOAA 1145	A 6529	01	KAWAIIHAU	1	22 11	159 20	330		7A			THEODORE JAVELLANA JR
MOUNT WAIALEALE 1047	R 6565	03	WAI'MEA	2	22 04	159 30	5148		MIO			U S GEOLOGICAL SURVEY
NIU RIDGE 1035	6850	03	WAI'MEA	3	22 02	159 44	1250	6A	6A			KEKAHA SUGAR CO LTO
N WAILUA DITCH 1051	A 6888	02	LIHUE	2	22 04	159 28	1110		7A			LIHUE PLANTATION CO LTO
N WAILUA RIVER 1055	A 6893	02	LIHUE	2	22 04	159 26	650		MO			LIHUE PLANTATION CO LTO
PH WAINIHA 1115	8155	01	HANAIEI	1	22 12	159 34	101		6A		C	MC BRYOE SUG CO LTO
PRINCEVILLE RANCH 1117	8165	01	HANAIEI	1	22 13	159 29	295		9A		C	PRINCEVILLE RANCH INC
PUEHU RIDGE 1040	8205	03	WAI'MEA	3	22 01	159 42	1660		8A			KEKAHA SUGAR CO LTO
PUHI 1013	A 8217	02	LIHUE	2	21 58	159 24	329		8A			LIHUE PLANTATION CO LTO
WAIHAWA 930	A 8941	02	KOLOA	2	21 54	159 34	215		7A		C	MC BRYOE SUG CO LTO
WAIHAI LOWER 1054	8958	02	LIHUE	2	22 01	159 27	565	6A	6A			LIHUE PLANTATION CO LTO
WAIHAI UPPER 1052	8966	02	LIHUE	2	22 01	159 28	780		6A			LIHUE PLANTATION CO LTO
WAIANA 943	9253	03	WAI'MEA	3	21 59	159 43	10		8A			KEKAHA SUGAR CO LTO
WAILUA KAI 1065	A 9467	02	LIHUE	2	22 02	159 21	50		7A			LIHUE PLANTATION CO LTO
WAI'MEA 947	9629	03	WAI'MEA	3	21 58	159 41	20	8A	8A			KEKAHA SUGAR COMPANY
WEST LAWA 931	A 9955	02	KOLOA	2	21 54	159 31	210		6A			MC BRYOE SUG CO LTO
ISLAND OF OAHU												
AHUIMANU LOOP 839.12	0055	01	KOOLAUPOKO	1	21 26	157 51	320				C	OR DON MITCHELL
ALOHA STADIUM-HALAWA	0172	03	OAHU	3	21 23	157 56	40	8A	8A			ALOHA STADIUM
BERETANIA PUMPING STA	0211	02	HONOLULU	2	21 19	157 51	20		9A			BOARD OF WTR SUPPLY
B Y U LAIE 903.1	0240	01	KOOLAUPOKO	1	21 39	157 56	20	12M	12M			B Y U-HAWAII CAMPUS
CAMPBELL INO PK 702.5	0248	02	OAHU	3	21 19	158 07	10		8A			CHEVRON U S A INC
CAMP 84 807	0300	03	EWA	3	21 26	158 04	760				C	OEL MONTE CORPORATION
COCONUT ISLAND 840.1	0350	01	KOOLAUPOKO	1	21 26	157 47	15		8A			H INST MARINE BIOLOGY
DOWSETT HIGHLOS 780.8	0438	02	HONOLULU	2	21 21	157 50	565				C	J L BANNING
EWA PLANTATION 741	0507	03	EWA	3	21 21	158 02	5		7A			OAHU SUGAR COMPANY
HALAWA SHAFT 771.2	0964	02	HONOLULU	2	21 23	157 54	170				C	NWS SWS AREA II PRH
HAWAII KAI CRSE 724.19	1308	02	OAHU	2	21 18	157 39	21				C	HAWAII KAI GOLF COURSE
HELEMANO INTAKE 881	1384	05	WAILUA	5	21 33	158 00	1274				C	WAILUA SUGAR CO INC
HOKULOA 725.2	A 1540	03	EWA	3	21 24	158 06	2260				C	WILLIAM M KIRKPATRICK
HONOLULU OBSERV 702.2	1918	03	EWA	3	21 19	158 00	5	9A	9A	9A		NATL WEATHER SERVICE
HONOLULU W50 703 AP	A 1919	02	HONOLULU	2	21 20	157 55	7	MIO	MIO		C	NATL WEATHER SERVICE
KAENA POINT 841.3	2410	04	WAILUA	4	21 34	158 15	1240		9A			U S AIR FORCE
KAHANA 883	A 2462	01	KOOLAUOLA	1	21 31	157 54	800		WI			WAIHOLE WATER CO LTO
KAHUKU 912	A 2570	01	KOOLAUOLA	1	21 42	157 59	15				C	KIULIMA HOTEL

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								TEMP.	PRECIP.	EVAP.	SPECIAL (SEE NOTES)	
ISLAND OF OAHU												
KAILUA FIRE STA 791.3	2683	01	KOOLAUPOKO	1	21 24	157 45	10				C	KAILUA FIRE STATION
KALIHI RES SITE 777	R 2960	02	HONOLULU	2	21 23	157 50	910		M10			BOARD OF WTR SUPPLY
KANEONE MAUKA 781	3113	01	KOOLAUPOKO	1	21 25	157 49	325	7A	7A			STATE HOSPITAL
KAPALAMA 773	A 3268	02	HONOLULU	2	21 21	157 52	614		8A			KAMEHAMEHA SCHOOLS
KAWAIHAPAI 841	A 3734	05	WAIALUA	5	21 35	158 11	40		7A			WAIALUA SUGAR CO INC
KEMOO CAMP 8 855	A 4318	05	WAIALUA	5	21 33	158 05	725		7A			WAIALUA SUGAR CO INC
KOOLAU DAM 833	A 4766	05	WAIHAWA	5	21 30	157 58	1160		8A			US ARMY SCHOFIELD BRKS
LULUKU 781.7	5655	01	KOOLAUPOKO	1	21 24	157 49	240				C	NATL WEATHER SERVICE
MAKAHA PUMP 800.2	5782	04	OAHU	4	21 29	158 12	400				C	CAPITAL INVESTMENT CO
MAKAKILO 730.1	5789	03	OAHU	3	21 21	158 06	300		6A			NEAL ADAMS
MANOA 712.1	6122	02	HONOLULU	2	21 19	157 49	220		7A			CHARLES COOKE
MANOA LYON ARBORETUM	6128	02	OAHU	2	21 20	157 48	500	8A	8A			LYON ARBORETUM
MANOA TUNNEL 2 716	R 6130	02	HONOLULU	2	21 20	157 48	650		M10			BOARD OF WTR SUPPLY
MAUNAWILI 787.1	6222	01	KOOLAUPOKO	1	21 21	157 46	395				C	EXP STN H 5 P A
MOANALUA 770	6395	02	HONOLULU	2	21 21	157 54	20		9A			JOHN A ROXBURGH
MOUNT KAALA 844	6553	04	WAIANAE	4	21 31	158 09	4025				C	FAA
NUUANU RES 4 783	6928	02	HONOLULU	2	21 21	157 49	1048		M10			BOARD OF WTR SUPPLY
NUUANU RESERV 5 775	A 6933	02	HONOLULU	2	21 21	157 50	410		WI			BOARD OF WTR SUPPLY
OPAEULA 870	A 7150	05	WAIALUA	5	21 34	158 02	1060	7A			C	WAIALUA SUGAR CO INC
PAIKO OR 723.4	7540	02	HONOLULU	2	21 17	157 44	10		6P			O L GRUBB
PALI GOLF COURSE 788.1	7656	01	OAHU	1	21 23	157 47	480		10A			CC DEPT PKS RECREATION
PALOLO VALLEY 718	R 7664	02	HONOLULU	2	21 20	157 46	995		M10			BOARD OF WTR SUPPLY
PAUOA FLATS 784	R 7810	02	HONOLULU	2	21 21	157 48	1640		M10			BOARD OF WTR SUPPLY
PEARL COUNTRY CL 760.2	7942	03	OAHU	3	21 23	157 56	120					PEARL COUNTRY CLB OF HA
PUNALUU PUMP 905.2	8314	01	KOOLAUPOKO	1	21 35	157 54	20				C	NATL WEATHER SERVICE
PUNCHBOWL CRATER 709	A 8316	02	HONOLULU	2	21 19	157 51	360		8A			NAT MEM CEMETERY
PUPUKA HEIGHTS 896.4	8342	01	WAIALUA	1	21 39	158 02	900				C	JACK N WHEELER
PUU MANAWAHUA 725.6	8500	03	OAHU	3	21 23	158 06	1690		8A			HUGH HAMILTON
TANTALUS 2 780.5	8738	02	HONOLULU	2	21 20	157 50	1325		7A			R E WHITE
UNIV OF HAWAII 713	A 8815	02	HONOLULU	2	21 18	157 49	79		8A			UNIVERSITY OF HAWAII
WAIHAWA DAM 863	8945	05	WAIHAWA	5	21 30	158 03	854					WAIALUA SUGAR CO INC
WAIHOLE 837	A 8964	01	KOOLAUPOKO	1	21 28	157 53	745		8A		C	WAIHOLE WATER CO LTO
WAIKALAE KAHALA 715	9185	02	HONOLULU	2	21 17	157 47	40		7A			SPENCER TINKER
WAIKALAE 896.3	9190	01	KOOLAUPOKO	1	21 41	158 02	33	8A	8A			WAIKALAE LIVESK RES FARM
WAIALUA 847	A 9195	05	WAIALUA	5	21 35	158 07	32	7A	7A		C	WAIALUA SUGAR CO INC
WAIANAE 798.2	A 9231	04	WAIANAE	4	21 27	158 11	10		7A			BEN MAYES
WAIKANA 836	A 9261	03	EWA	3	21 28	157 56	800		M0			WAIHOLE WATER CO LTO
WAIKANE 885	A 9340	01	KOOLAUPOKO	1	21 30	157 53	760		WI			WAIHOLE WATER CO LTO
WAIKIKI 717.2	9397	02	HONOLULU	2	21 16	157 49	10	8A	8A			HONOLULU ZOO
WAILUPE VLY SCH 723.6	9500	02	HONOLULU	2	21 18	157 45	180				C	WAILUPE VALLEY SCHOOL
WAIMANALO EXP FM 795.1	9523	01	KOOLAUPOKO	1	21 20	157 43	60		7A			U H WAIMANALO EXP FARM
WAIMANALO NONOKI 795.2	9534	01	OAHU	1	21 20	157 43	120				C	WAIMANALO EXP FARM
WAIKANE 892	9593	05	WAIALUA	5	21 38	158 04	330				C	WAIALUA SUGAR CO INC
WAIKANA 750	A 9738	03	EWA	3	21 23	158 01	59		8A			WAIHOLE WATER CO LTO
WILHELMINA RISE 721	R 9980	02	HONOLULU	2	21 18	157 47	1100		M10			BOARD OF WTR SUPPLY
ISLAND OF MOLOKAI												
KALAUAPAPA 563	A 2896	01	MOLOKAI	1	21 12	156 59	30		8A			KALAUAPAPA SETTLEMENT
KAUNAKAKAI 536	3541	01	MOLOKAI	1	21 06	157 01	12		7A			MOLOKAI RANCH LTO
KAUNAKAKAI MAUKA 536.5	3547	01	MOLOKAI	1	21 06	157 01	70				C	MOLOKAI GENERAL HOSP
KEONELELE PENS 551	A 4394	01	MOLOKAI	1	21 12	157 12	560		VAR			MOLOKAI RANCH CO LTO
KUALAPUU 534	A 4778	01	MOLOKAI	1	21 09	157 02	825				C	OEL MONTE CORPORATION
MAUNALO 511	A 6190	01	MOLOKAI	1	21 08	157 13	1070				C	MOLOKAI RANCH CO LTO
MOLOKAI AP 524	6534	01	MOLOKAI	1	21 09	157 06	450	8A	8A			ALOHA AIRLINES
PUU O HOKU RANCH 542.1	8549	01	MOLOKAI	1	21 09	156 44	700				C	CHARLIE APIA (FOREMAN)
WAIKOLU 540	A 9404	01	MOLOKAI	1	21 08	156 55	3550		WI			MOLOKAI RANCH CO LTO
ISLAND OF LANAI												
KANEPUU 690	A 3130	01	LAHAINA	1	20 52	157 00	1650		WI			U S O A
KAUNALAPPA HARBOR 658	3461	01	LAHAINA	1	20 47	157 00	30		8A			OOLE COMPANY
LANAI AIRPORT 656	3275	01	LAHAINA	1	20 48	156 57	1300	8A	8A			HAWAIIAN AIR
LANAI CITY 672	A 5286	01	LAHAINA	1	20 50	156 55	1620	7A	7A		C	OOLE COMPANY
LANAIHALE 684	A 5301	01	LAHAINA	1	20 49	156 53	3370		WI			U S O A
MAHANA 694	A 5704	01	LAHAINA	1	20 52	156 55	1430		M0			U S O A
MALAEUA 676	A 6012	01	LAHAINA	1	20 46	156 55	1150		WI			KOELE COMPANY
WAIKAEKUA 685	A 9021	01	LAHAINA	1	20 47	156 52	2000		WM			KOELE COMPANY

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ISLAND OF MAUI													
AUWAHI 252	A 0175	02	HANA	2	20 37	156 20	2060		VAR			C	ULUPALAKUA RCH CO LTD
FIELO 46 474	0541	04	LAHAINA	4	20 59	156 38	1050						MAUI LAND-PINEAPPLE CO
HAELAAU 477	A 0790	04	LAHAINA	4	20 57	156 36	2980		MO			C	MAUI LAND-PINEAPPLE CO
HALEAKALA 8 E 5 434	A 0995	01	MAKAWAO	1	20 51	156 18	2100		7A				U OF H AGRIC EXP STA
HALEAKALA RANCH 432	A 0999	01	MAKAWAO	1	20 50	156 19	1850		8A			C	HALEAKALA RANCH CO
HOLEAKALA R 5 338	1004	02	MAKAWAO	2	20 46	156 15	7030	8A	8A				HALEAKALA NAT PARK
HALIIMAILE 423	A 1075	01	MAKAWAO	1	20 52	156 21	1070		3A			C	MAUI LAND-PINEAPPLE CO
HAMAKUAPOKO 485	1086	01	MAKAWAO	1	20 55	156 21	320		5A				HAWAIIAN COM & SUG CO
HANA 354	1122	01	HANA	1	20 45	155 59	120					C	HARRY HASEGAWA
HANA AIRPORT 355	1125	01	HANA	1	20 48	156 01	61	8A	8A				ROYAL HAWAIIAN AIRLINES
HOLUA CABIN 259.5	A 1552	02	MAKAWAO	2	20 45	156 13	6930		MO			C	HALEAKALA NATL PARK RG5
HONOKOHAU 480	A 1882	04	LAHAINA	4	20 58	156 36	870		MO				MAUI LAND-PINEAPPLE CO
HONOKOHAU 493	A 1887	04	LAHAINA	4	21 00	156 39	135		6A			C	MAUI LAND-PINEAPPLE CO
HONOLUA FIELO 49 494	A 1914	04	LAHAINA	4	21 01	156 38	125		MO				MAUI LAND-PINEAPPLE CO
HONOMANU GULCH 341	A 1935	01	MAKAWAO	1	20 47	156 14	6280		MO			C	HALEAKALA RANCH CO
KAAHAPALI AP 453.1	2307	04	LAHAINA	4	20 56	156 42	8	8A	8A				AMFAC PROPERTIES INC
KAHAKULOA MAUKA 482.3	2453	03	WAILUKU	4	20 59	156 33	650					C	EDWARD CHANG
KAHOMA INTAKE 374	A 2552	04	LAHAINA	4	20 54	156 38	2000		W1				PIONEER MILL CO LTD
KAHULUI WSO 398 AP	R 2572	03	WAILUKU	3	20 54	156 26	48	M10	M10		J	C	NATL WEATHER SERVICE
KAILIILI 436	A 2630	01	MAKAWAO	1	20 51	156 16	2520		MO				E MAUI IRR CO LTD
KAILUA 446	2679	01	MAKAWAO	1	20 54	156 13	700	7A	7A			C	E MAUI IRR CO LTD
KAUAPUA INTAKE 375	A 3433	04	LAHAINA	4	20 53	156 38	1585		W1				PIONEER MILL CO LTD
KAUPO RANCH HOUSE 259	3576	02	HANA	2	20 39	156 08	1020					C	KAUPO RANCH CO
KEAHUA 410	3910	03	MAKAWAO	3	20 52	156 23	480		5A				HAWAIIAN COM & SUG CO
KEANAE 346	A 4091	01	HANA	1	20 50	156 10	980		MO			C	E MAUI IRR CO LTD
KEAWAKAPU BEACH 260.2	4193	02	MAKAWAO	2	20 42	156 27	20	8A	8A				ALLEN L CORELL
KIHEI 311	4489	03	WAILUKU	3	20 47	156 27	90		7A			C	HAWAIIAN COM & SUG CO
KIPAHULU 258	4634	01	HANA	1	20 39	156 04	260		7A				HANA RANCH-KIPAHULU SEC
KUKUI 380	A 4887	04	LAHAINA	4	20 54	156 35	5788		MO			C	MAUI LAND-PINEAPPLE CO
KULA SANATORIUM 267	5006	02	MAKAWAO	2	20 42	156 22	3004	7A	7A				KULA SANATORIUM
LAHAINA 361	5177	04	LAHAINA	4	20 53	156 41	45	7A	7A			C	PIONEER MILL CO LTD
LAUNIUPOKO INTAKE 376	A 5404	04	LAHAINA	4	20 51	156 37	1280		W1				PIONEER MILL CO LTD
LAUNIUPOKO VILLAGE 372A	A 5408	04	LAHAINA	4	20 51	156 39	220		7A			C	PIONEER MILL CO LTD
LUPI UPPER 442	A 5665	01	MAKAWAO	1	20 53	156 15	1240		MO				E MAUI IRR CO LTD
MAHINAHINA 466	A 5715	04	LAHAINA	4	20 57	156 40	715		7A			C	PIONEER MILL CO LTD
MOKUPEA 475	A 6521	04	LAHAINA	4	20 59	156 37	1290		MO				MAUI LAND-PINEAPPLE CO
NAKALELE FIELO 60 497	A 6645	04	LAHAINA	4	21 02	156 36	340	VAR				C	MAUI LAND-PINEAPPLE CO
OLINDA 332	A 7040	01	MAKAWAO	1	20 48	156 17	4127	VAR					E MAUI IRR CO LTD
OLOWALU 296.1	7059	04	LAHAINA	4	20 49	156 37	20		7A			C	PIONEER MILL CO LTD
PAAKEA 350	7194	01	HANA	1	20 49	156 07	1260	VAR					E MAUI IRR CO LTD
PAIA 406	7566	01	WAILUKU	1	20 55	156 23	170		6A			C	HAWAIIAN COM & SUG CO
PANILEIHULU 259.2	A 7674	02	HANA	2	20 41	156 08	3570		MO				KAUPO RANCH CO
PEAHI 488.6	7952	01	MAUI	1	20 54	156 17	830					C	BERNARD RUPLINGER
POHAKA BRIDGE 307.2	A 8060	03	WAILUKU	3	20 49	156 31	167		6A				WAILUKU SUGAR CO
POLIPOLI SPRINGS 267.2A	8070	02	MAKAWAO	2	20 41	156 20	6150	VAR				C	STATE DIV OF FORESTRY
PUDHOKAMOA 2 343	A 8336	01	HANA	1	20 50	156 13	2980		MO				E MAUI IRR CO LTD
PUUNENE 396	8543	03	WAILUKU	3	20 53	156 27	60		7A			C	HAWAIIAN COM & SUG CO
PUU PAKI 352	A 8553	01	HANA	1	20 46	156 03	2160						E MAUI IRR CO LTD
SPRECKELSVILLE 400.2	8688	03	WAILUKU	3	20 54	156 25	85		8A			C	HAWAIIAN COM & SUG CO
TWIN GATES 261.3	A 8742	03	MAKAWAO	3	20 46	156 23	1310	VAR					KAONOULU RANCH
UH AGRI RES CNTR 324.5	8743	02	MAUI	2	20 46	156 20	3050	12M	7A			C	UH MAUI AGRI RESCH CNTR
UKULELE 333	A 8744	01	MAKAWAO	1	20 48	156 15	5230		MO				HALEAKALA RANCH CO
UKUMEHAME 301	A 8750	04	LAHAINA	4	20 48	156 35	75		7A			C	PIONEER MILL CO LTD
ULUPALAKUA RANCH 250	8760	02	MAKAWAO	2	20 39	156 24	1900		8A				ULUPALAKUA RCH CO LTD
WAHIKULI 364	A 8955	04	LAHAINA	4	20 54	156 40	580		8A			C	PIONEER MILL CO LTD
WAIHEU CAMP 484	A 9275	03	WAILUKU	3	20 55	156 31	320		6A				WAILUKU SUGAR CO
WAIHEE VALLEY 482	A 9315	04	WAILUKU	4	20 57	156 32	300		6A			C	WAILUKU SUGAR CO
WAIKAMOI 449	A 9332	01	HANA	1	20 52	156 12	1200		MO				E MAUI IRR CO LTD
WAIKAMOI DAM 336	9335	01	MAKAWAO	1	20 49	156 14	4320					C	E MAUI IRR CO LTD
WAIKAPU 390	A 9376	03	WAILUKU	3	20 51	156 31	370		6A				WAILUKU SUGAR CO
WAILUA IKI 348	A 9460	01	HANA	1	20 48	156 09	2630					S	E MAUI IRR CO LTD
WAILUKU 386	A 9484	03	WAILUKU	3	20 54	156 30	180		7A				WAILUKU SUGAR COMPANY
WAIOPAI RANCH 256	A 9765	02	HANA	2	20 38	156 12	220		OC			C	HALEAKALA RANCH CO
ISLAND OF HAWAII													
AMUA UMI 75	A 0040	05	N KONA	5	19 38	155 47	5220		MO			C	W H GREENWELL RANCH
CITY OF REFUGE 27.4	0344	04	S KONA	4	19 25	155 55	15		9A				NAT HISTORICAL PARK

SEE REFERENCE NOTES FOLLOWING STATION INDEX

## STATION INDEX

HAWAII AND PACIFIC  
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STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES				OBSERVER
								TEMP.	PRECIP.	EVAP.	SPECIAL (SEE NOTES)	
ISLAND OF HAWAII												
HAINA 214	0840	01	HAMAKUA	1	20 06	155 28	461		8A			HONOKAA SUGAR CO
HAKALAU 142	0905	02	S HILO	2	19 54	155 08	105		7A			MAUNA KEA SUGAR CO
HALEMAUMAU 52	A 1033	03	KA'U	3	19 24	155 17	3648		MO			HAWAII NAT PARK
HALEPOHAKU 111	A 1065	02	HAMAKUA	2	19 46	155 28	9220		3P			MAUNA KEA OBSERVATORY
HAWAII VOLCNS NP HQ 54	1303	02	KA'U	2	19 26	155 16	3971	8A	8A			HA VOLCANOES NAT PK HQS
HAWI 168	A 1339	01	N KOHALA	1	20 14	155 50	580		6A			K L 80ND
HILO COUNTRY CLUB 86.6	1487	02	HAWAII	2	19 41	155 10	1600					REX WILLS II
HILO WSO AP 87	R 1492	02	S HILO	2	19 43	155 04	36	MIO	MIO		J	NATL WEATHER SERVICE
HOLUALOA 70	A 1557	04	N KONA	4	19 38	155 55	3220		MO			STATE DIV OF FORESTRY
HOLUALOA BEACH 68	A 1562	04	N KONA	4	19 37	155 59	14		7A			CAPT COOK CATTLE CO
HONAUNAU 27	1665	04	S KONA	4	19 27	155 53	1089		7A			SHIGETO L TANAKA
HONOHINA 137	1701	02	N HILO	2	19 56	155 09	300		7A			MAUNA KEA SUGAR CO INC
HONOMU MAUKA 138	1960	02	S HILO	2	19 51	155 09	1100					MAUNA KEA SUGAR CO
HONUAULA 71	A 2047	04	N KONA	4	19 40	155 53	6250		MO			STATE DIV OF FORESTRY
HUALALAI 72	A 2151	04	N KONA	4	19 42	155 52	8190		MO			STATE DIV OF FORESTRY
HUEHUE 92.1	A 2156	04	N KONA	4	19 45	155 59	1960		6A			HUEHUE RANCH
KAAALA IKI 12	A 2249	03	KA'U	3	19 08	155 34	1340		WI			KA'U SUGAR CO INC
KAAWALO 29	A 2327	04	SOUTH KONA	4	19 30	155 55	1340		8A			CAPT COOK INVESTMENT CO
KAHIAWAI MAUKA 3.8	2512	03	KA'U	3	19 08	155 46	4120				C	RUSSELL P SMITH
KAHUA RCH HQTRS 176.3	2600	01	HAWAII	1	20 08	155 48	3240					KAHUA RANCH COMPANY
KAINALIU 73.2	2751	04	N KONA	4	19 32	155 56	1500	7A	7A			KONA EXPERIMENT STA
KALAOA 69.22	2887	04	HAWAII	4	19 44	155 59	2000		8A			FLOYD W MC COY
KALAPANA 1 67.8	2894	02	S HILO	2	19 20	155 02	10		VAR			HAWAII VOLCANOES NAT PK
KAMAOLA 2 5	A 3048	03	KA'U	3	19 02	155 40	1375		WI			PARKER RANCH KA'U DIV
KAMUELA 192.2	3077	01	S KOHALA	1	20 01	155 40	2670	6A	6A			PARKER RANCH
KAPAPALA RANCH 36	A 3300	03	KA'U	3	19 17	155 27	2140		6A			GORDON CRAN
KAPOHO BEACH 93.11	3368	02	HAWAII	1	19 30	154 49	10	8A	8A			H E MC NICHOLS
KAPOHO LANDING 93.5	A 3369	02	PUNA	2	19 30	154 52	290		VAR			DEPT OF PUBLIC WORKS
KAWAINUI LOWER 193	A 3770	01	HAMAKUA	1	20 05	155 39	1080		WI			HONOKAA SUGAR CO
KEAAU 92	3872	02	PUNA	2	19 38	155 02	285		8A			PUNA SUGAR CO
KEAIIWA CAMP 22.1	3925	03	KA'U	3	19 14	155 29	1700				C	KA'U SUGAR CO INC
KEALAKEUA 3 29.11	3985	04	S KONA	4	19 31	155 55	1530				C	W H GREENWELL RANCH
KEANAKOLU CAMP 124.2	4098	02	HAMAKUA	2	19 55	155 21	5280				C	STATE DIV OF FORESTRY
KIOLAKAA A & F 6	A 4625	03	KA'U	3	19 04	155 38	1925		MO			STATE DIV OF FORESTRY
KIPA 89.2	A 4632	02	S HILO	2	19 44	155 09	1490		WI			MAUNA KEA SUGAR CO
KOHALA MISSION 175.1	4680	01	N KOHALA	1	20 14	155 48	537		7A			K LYMAN 80ND
KOIAWE LOWER 196	A 4685	01	HAMAKUA	1	20 05	155 38	720		WI			HONOKAA SUGAR CO
KONA (KAILUA) 68.3	A 4764	04	N KONA	4	19 39	156 00	30	8A	8A		C	CHEVRON USA
KONA VILLAGE 93.8	4765	04	N KONA	4	19 50	155 59	20		8A			KONA VILLAGE RESORT HTL
KUKAIIAU 222	4815	01	HAMAKUA	1	20 02	155 21	840		6A			LAUPAHOEHOE SUGAR CO
KUKUIHALE HIC 199	4928	01	HAMAKUA	1	20 07	155 35	980		6A			HONOKAA SUGAR CO
KUKUIHALE MILL 206	A 4938	01	HAMAKUA	1	20 08	155 34	300		6A			HONOKAA SUGAR CO
KULANI CAMP 79	5011	02	S HILO	2	19 33	155 18	5170	8A	8A			ST DEPT OF SOCIAL SER
KULANI MAUKA 76	A 5018	05	N HILO	5	19 35	155 27	8300		WI			MAUNA LOA OBSERVATORY
KULANI SCHOOL SITE 78	A 5021	02	S HILO	2	19 35	155 20	5735		WI			ST DEPT OF SOCIAL SER
LALAMILO FLO OFF 191.1	5260	01	S KOHALA	1	20 01	155 41	2615				C	STATE DEPT OF L&N RES
LANIHAU 68.2	5330	04	N KONA	4	19 40	155 58	1530		7A			KONA EXPERIMENT STATION
LAVA TREE PARK 66.1	5460	02	PUNA	2	19 29	154 54	650				C	STATE DIVISION OF PARKS
MAKAHALAU 103	5761	02	HAWAII	1	19 59	155 33	3820		6A			PARKER RANCH
MANUKA 2	A 6134	03	KA'U	3	19 07	155 50	1760		WI			STATE DIVISION OF PARKS
MAUNA KEA 085 111.2	6183	02	HAWAII	2	19 49	155 28	13770	7P	7P			MAUNA KEA OBSERVATORY
MAUNA LOA SLOPE 085	6198	05	HAMAKUA	5	19 32	155 35	11150	MIO	MIO			MAUNA LOA OBSERVATORY
MIDDLE HOLUALOA 68.1	A 6268	04	N KONA	4	19 37	155 58	500		7A			CAPT COOK CATTLE CO
MIDDLE PEN 147.1	A 6270	01	N KOHALA	1	20 06	155 50	1380		VAR			KAHUA RANCH
MOAULA 18	A 6407	03	KA'U	3	19 11	155 30	600		WI			PARKER RANCH KA'U DIV
MOUNTAIN VIEW 91	6552	02	PUNA	2	19 33	155 07	1530	6A	6A		C	PUNA SUGAR CO
NAALEHU 14	A 6588	03	KA'U	3	19 04	155 35	800	8A	8A			KA'U SUGAR CO INC
NAPPOPOO 28	A 6697	04	S KONA	4	19 28	155 55	350		7A			U H KONA EXP STATION
OOKALA 223	7131	02	N HILO	2	20 01	155 17	430	6A	6A		C	LAUPAHOEHOE SUGAR CO
OPIHIHALE 2 24.1	7166	04	S KONA	4	19 16	155 53	1270	7A	7A			MRS LORMA TRUMAN
ORCHID LAND EST 91.5	A 7185	02	PUNA	2	19 34	155 00	445		VAR			BOARD OF WTR SUPPLY
PAUHAU 217	7204	01	HAMAKUA	1	20 05	155 26	415		BA		C	HONOKAA SUGAR COMPANY
PAUULO 221	7312	01	HAMAKUA	1	20 03	155 22	890		7A			LAUPAHOEHOE SUGAR CO
PAHALA 21	A 7421	03	KA'U	3	19 12	155 29	870		6A			KA'U SUGAR CO INC
PAHOA 65	7457	02	PUNA	2	19 30	154 57	670		6A			PUNA SUGAR COMPANY
PAPAIIKOU 144.1	7711	02	S HILO	2	19 47	155 06	260		7A			MAUNA KEA SUGAR CO
PAPAIIKOU MAUKA 140.1	7721	02	S HILO	2	19 47	155 08	1285		7A			MAUNA KEA SUGAR CO

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STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES				OBSERVER
								TEMP.	PRECIP.	EVAP.	SPECIAL (SEE NOTES)	
ISLAND OF HAWAII												
PIIHONUA 89	A 8051	02	S HILO	2	19 44	155 10	1730		MO			STATE DIV OF FORESTRY STATE DIV OF PARKS SUPT PUU HEIAU-NHS W H GREENWELL RANCH PUU WAAWAA RANCH CO MRS CAROLYN CARLSON CLOSED 4/30/78 U S COAST GUARD SHINICHI KANESHIRO 801SE CASCADES WA CONST
POHAKULOA 107	A 8063	02	HAMAKUA	2	19 45	155 32	6511				C	
PUUKOHOLA HEIAU 98.1	8422	05	HAWAII	5	20 02	155 50	140	8A	8A			
PUU LEHUA 73	A 8460	04	N KONA	4	19 34	155 49	4880		MO			
PUU WAAWAA 94.1	8555	05	N KONA	5	19 47	155 51	2520				C	
SOUTH KONA 2.31	8650	03	HAWAII	3	19 06	155 45	2650	8A	8A			
SOUTH POINT CORRAL 3	A 8675	03	KA'U	3	18 57	155 41	500		WI			
UPOLU POINT USCG 159.2	8830	01	N KOHALA	1	20 15	155 53	61	8A	2P			
WAIKAKA 500 88.2	9025	02	S HILO	2	19 40	155 08	1050		7A			
WAIKALOA-8015 CAS 95.8	9142	04	HAWAII	5	19 56	155 48	900		8A			
CLOSED STATIONS ISLAND OF HAWAII												
SOUTH POINT CORRAL 3	A 8675	03	KA'U	3	18 57	155 41	500		WI			CLOSED 4/30/78

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STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES				OBSERVER
								TEMP.	PRECIP.	EVAP.	SPECIAL (SEE NOTES)	
PACIFIC												
EAST OF 180TH MERIDIAN												
ATU'U	4060	03	TUTUILA		14 16S	170 41W	265		4P			MARIST BROTHERS
CANTON ISLAND	4101	02	PHOENIX IS		2 46N	171 43W	8	9A	9A			ITT/FEDERAL ELEC CORP
FALEASAO VILLAGE	4248	03	TA'U'MAN		14 14S	169 31W	16		8A			SOLOMULI MALU'IA
JOHNSTON IS WSO AP	R 4320	01	LINE ISLANDS		16 44N	169 31W	10	MIO	MIO	5P	J	NATL WEATHER SERVICE
LEONE	4397	03	TUTUILA		14 21S	170 47W	20	6P	6P			ST THERESA SCHOOL
FRENCH FRIGATE SHOALS	4401	07			23 52N	166 17W	6	8P	8A			U S COAST GUARD
MIDWAY SAND ISLAND	4490	07			28 13N	177 21W	10	MIO	MIO			U S NAVY
PAGO PAGO WSO AP	R 4690	03	AMEP SAMOA		14 20S	170 43W	10	MIO	MIO	7P	J	NATL WEATHER SERVICE
WESTERN PACIFIC ISL. NORTH OF 12 N												
AGAT	4000	03	GUAM		13 23N	144 39E	10		8A			PUBLIC UTIL AG OF GUAM
ANDERSEN AFB GUAM	\$3 4025	03	MARIANNA IS		13 35N	144 55E	624	MIO	MIO			AIR WEATHER SERVICE
CLARK AFB LUZON	\$3 4100	06	PHILIPPINE I		15 11N	120 33E	475	MIO	MIO			U S AIR FORCE
OEOEO	4156	03	GUAM		13 31N	144 51E	350		8A			PUBLIC UTIL AG OF GUAM
GUAM NAS	4226	03	MARIANNA IS		13 29N	144 48E	254	MIO	MIO			U S NAVY
GUAM WSMO	R 4229	03	MARIANNA IS		13 33N	144 50E	361	10A	10A	6P	J	NATL WEATHER SERVICE
INARAJAN AG STN	4275	03	GUAM		13 16N	144 45E	30		9A			AGRI EXP STN INARAJAN
INARAJAN - NASA	4278	03	GUAM		13 18N	144 44E	280	11A	11A			POWER PLANT OPERATIONS
MANGILAO	4468	03	MARIANNA IS		13 27N	144 49E	60		7A			GUAM AGRICULTURAL STA
PITI	4670	03	GUAM		13 27N	144 41E	10				C	DEPT OF PUBLIC SAFETY
ROTA	4800	03	MARIANNA IS		14 08N	145 09E	47		8A			OIST ADMINISTRATOR
SAIPAN LORAN	4860	03	MARIANNA IS		15 08N	145 42E	9	10A	10A			U S C G LORAN STATION
UMATAC	4885	03	GUAM		13 17N	144 40E	190		8A			GOVERNMENT OF GUAM OPS
WAKE ISLAND WSO AP	R 4901	01	WAKE ISLAND		19 17N	166 39E	12	MIO	MIO		J	NATL WEATHER SERVICE
YIGO	4950	03	GUAM		13 32N	144 53E	525		9A			ANIMAL QUARANTINE STN
CAROLINE AND MARSHALL ISLANDS												
ENEWETAK	4165	01	MARSHALL IS		11 21N	162 21E	10	6P	6P			MIO-PACIFIC MARINE LAB
FALALOP I ULITHI ATOLL	4185	02	CAROLINE IS		10 02N	139 48E	6	MIO	MIO			RAPHAEL B LINGEJH
KAPINGAMARANGI ATOLL	4325	01	PONAPE		1 05N	154 48E	10	MIO	MIO			ERSIN HAQUET
KOROR WSO	R 4351	02	CAROLINE IS		7 20N	134 29E	94	MIO	MIO		J	NATL WEATHER SERVICE
KWAJALEIN MISSILE RGN	R 4375	01	MARSHALL IS		8 44N	167 44E	7	12M	12M		J	KMR WEATHER SERVICE
LELE I KOSRAE	4395	02	KOSRAE		5 20N	163 02E	7	MIO	MIO			JULIAN E ROBERT
MAJURO WSO AP	R 4460	02	MARSHALL IS		7 05N	171 23E	10	MIO	MIO		J	NATL WEATHER SERVICE
METALANIM	4482	02	PONAPE		6 51N	158 19E	30	6P	6P			REV E A SOUCIE
MOKIL ATOLL	4490	02	PONAPE		6 41N	159 47E	27		5P			ESHAM BEN
NGASANG-BAELTHUAP	4580	01	PALAU ISLAND		7 38N	134 39E	10		8A			BETHANIA SEMINARY
PONAPE WSO	R 4751	02	CAROLINE IS		6 58N	158 13E	123	MIO	MIO		J	NATL WEATHER SERVICE
SATAWAN ATOLL	4814	02	CAROLINE IS		5 20N	153 44E	9	MIO	MIO			ANTER EKO
TRUK MOEN I WSO AP	R 4851	02	CAROLINE IS		7 28N	151 51E	5	MIO	MIO		J	NATL WEATHER SERVICE
WOLEAI ATOLL	4911	01	CAROLINE IS		7 23N	143 55E	7	MIO	MIO			HASUGULIMAR/HALEYEMAI
YAP WSO AP	R 4951	02	CAROLINE IS		9 29N	138 05E	44	MIO	MIO	MIO	J	NATL WEATHER SERVICE

SEE REFERENCE NOTES FOLLOWING STATION INDEX



Additional information regarding the climates of Hawaii and the Pacific Ocean Area may be obtained by writing to the National Climatic Center, Federal Building, Asheville, N.C. 28801, or to any National Weather Service Office near you. Additional precipitation data for Hawaii are contained in "HOURLY PRECIPITATION DATA HAWAII."

**DIMENSIONAL UNITS:** Unless otherwise indicated, dimensional units used in this bulletin are: Temperature in °F., precipitation and evaporation in inches, and wind movement in miles. In "Supplemental Data" table directions entered in figures are tens of degrees. Resultant wind is the vector sum of wind directions and speeds divided by the number of observations.

**OBSERVATION TIME:** Data in the "Monthly Extremes," "Daily Precipitation" table, "Daily Temperature" table, and "Evaporation and Wind" table are for the 24 hours ending at time of observation unless indicated otherwise by reference letters in the Station Index. The Station Index shows observation time in local standard time.

**EVAPORATION** is measured in the standard Weather Service-type pan of 4-foot diameter unless otherwise noted below in the Evaporation and Wind table. Max and Min values in the Evaporation and Wind table are extremes of temperature of water in pan as recorded during 24 hours ending at time of observation. Wind is the total wind movement in miles over the evaporation pan as determined by a continuous anemometer recorder located 6-8 inches above the pan.

**NORMALS** for all stations are climatological standard normals based on the period 1941-1970.

**STATION NAMES:** Hawaii state key numbers are included following station names in the several tables.

**LATE REPORTS AND CORRECTIONS** will be carried only in the June and December issues of this bulletin.

**INTERPOLATED VALUES** for monthly precipitation totals may be found in the annual issue of this publication.

**IN THE DATA TABLES THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING:**

- No record in the "Supplemental Data" table, "Daily Precipitation" table, "Evaporation and Wind" table, and the Station Index.
- No record in the "Monthly Summarized Data" table and the "Daily Temperature" table is indicated by no entry.
- + And also on an earlier date or dates.
- ++ Highest observed one minute windspeed. This station is not equipped with an instrument to measure fastest mile data.
- \* Amount included in following measurement, time distribution unknown.
- ‡ Extreme occurred at station with incomplete data which may have been exceeded.
- A The letter "A" shown following station name in "Monthly Summarized Data" table, "Daily Precipitation" table, and "Station Index," indicates amount carried in the "Total" column is for the period from last measurement of a preceding month through the last measurement of the current month. See "Daily Precipitation" table of this and previous bulletins for dates of measurement. Where gages are read only once monthly, measurements made on the first of a month are credited to the last day of the preceding month.
- B Adjusted to a full month.
- M One or more days of record missing; if average value is entered, less than 10 days record is missing. See "Daily Temperature" table for detailed daily record.
- R Amounts from recording gage.
- T Trace, an amount too small to measure.
- V Includes total for previous month.

**IN THE STATION INDEX THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING:**

- AR Observation made after rain.
- C In Special Column of Station Index indicates Recording Rain Gage Station. Hourly Precipitation values are processed for special purposes, and are published later in the "Hourly Precipitation Data" bulletin. If daily amounts are published in "Monthly Summarized Data" bulletin they are from a separate non-recording gage, except where indicated by reference 'R'. Such amounts may differ from amounts published from the recording gage in the "Hourly Precipitation Data" bulletin.
- J "Supplemental Data" table.
- MO Gage read once monthly; usually on the last day.
- OC Gage readings at periods varying from a few weeks to several months.
- S Storage precipitation station. Precipitation measurements, made at irregular intervals, are published in the annual issue of this publication, beginning with the 1977 data. Prior data are found in the "Storage-Gage Precipitation Data" Bulletin, which was discontinued with the 1976 issue.
- SS Observation time is near sunset.
- VAR Observation time is variable.
- WI Gage read weekly or irregularly only.
- WM Gage read weekly and last day of month.
- # Thermometers are generally exposed in a shelter located a few feet above sod-covered ground; however, this reference indicates that the thermometers are exposed in a shelter located on the roof of a building.
- 53 Maximum and minimum temperatures are the highest and lowest hourly readings for each day.
- \* DRAINAGE CODE: KAUAI: 1-NORTHERN 2-SOUTHEASTERN 3-SOUTHWESTERN OAHU: 1-WINDWARD KOOLAU 2-HONOLULU 3-SOUTH CENTRAL 4-WESTERN 5-NORTH CENTRAL MOLOKAI: 1-(NO INTRA-ISLAND DIVISIONS) LANAI: 1-(NO INTRA-ISLAND DIVISIONS) MAUI: 1-NORTHEASTERN 2-SOUTHERN 3-CENTRAL 4-WESTERN HAWAII: 1-NORTHERN 2-EASTERN 3-SOUTHERN 4-WESTERN 5-CENTRAL

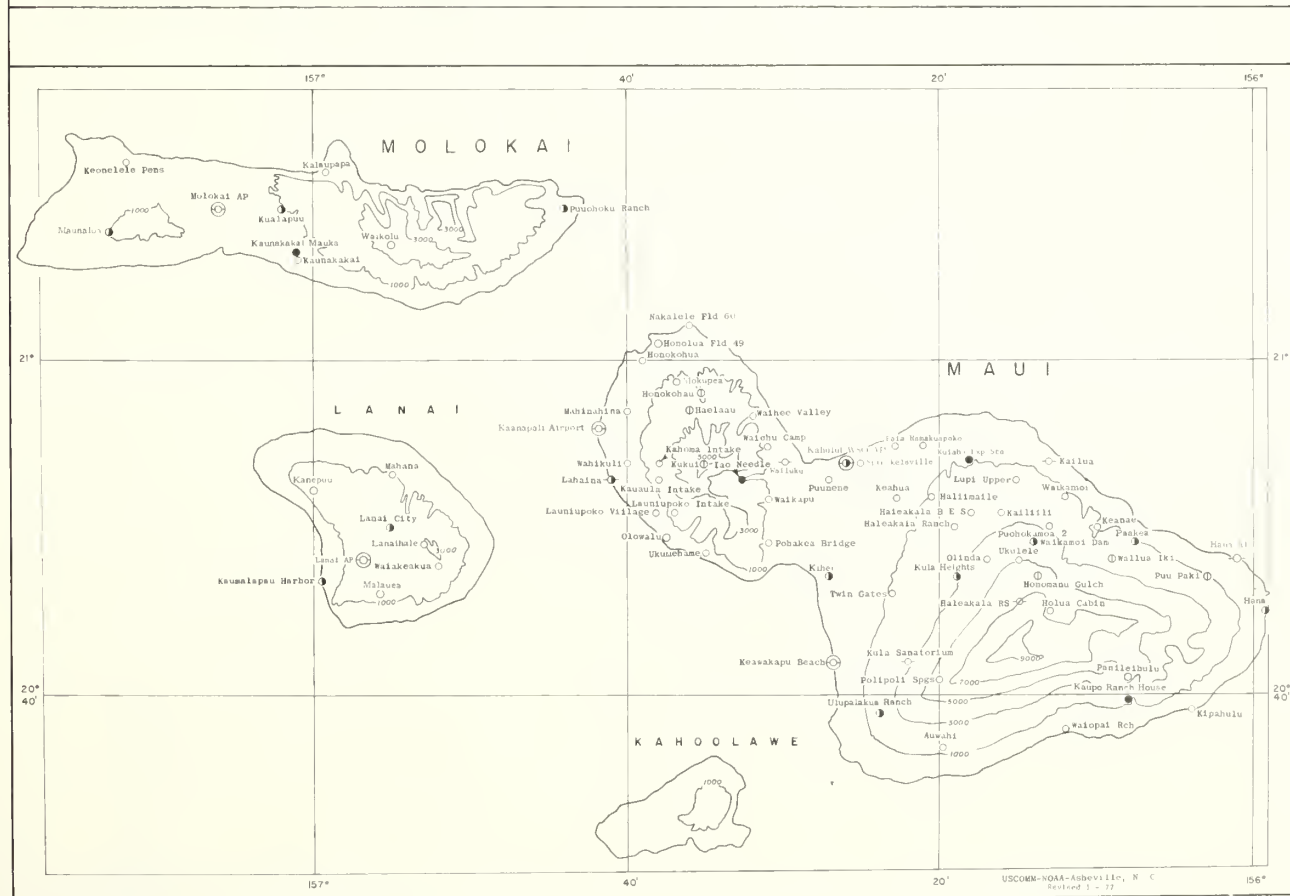
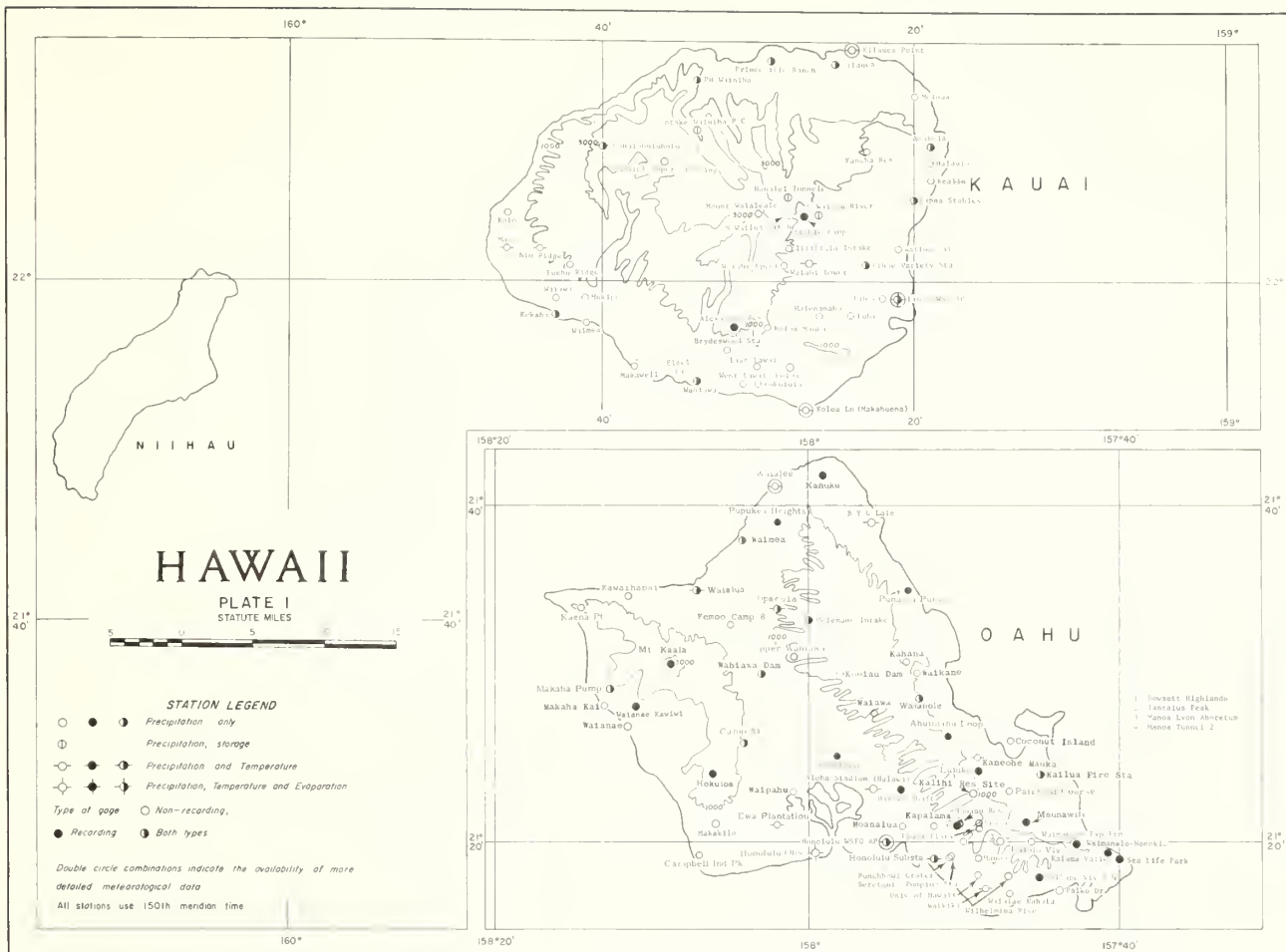
Stations appearing in the tables with no data were either missing or received too late to be included in this issue.

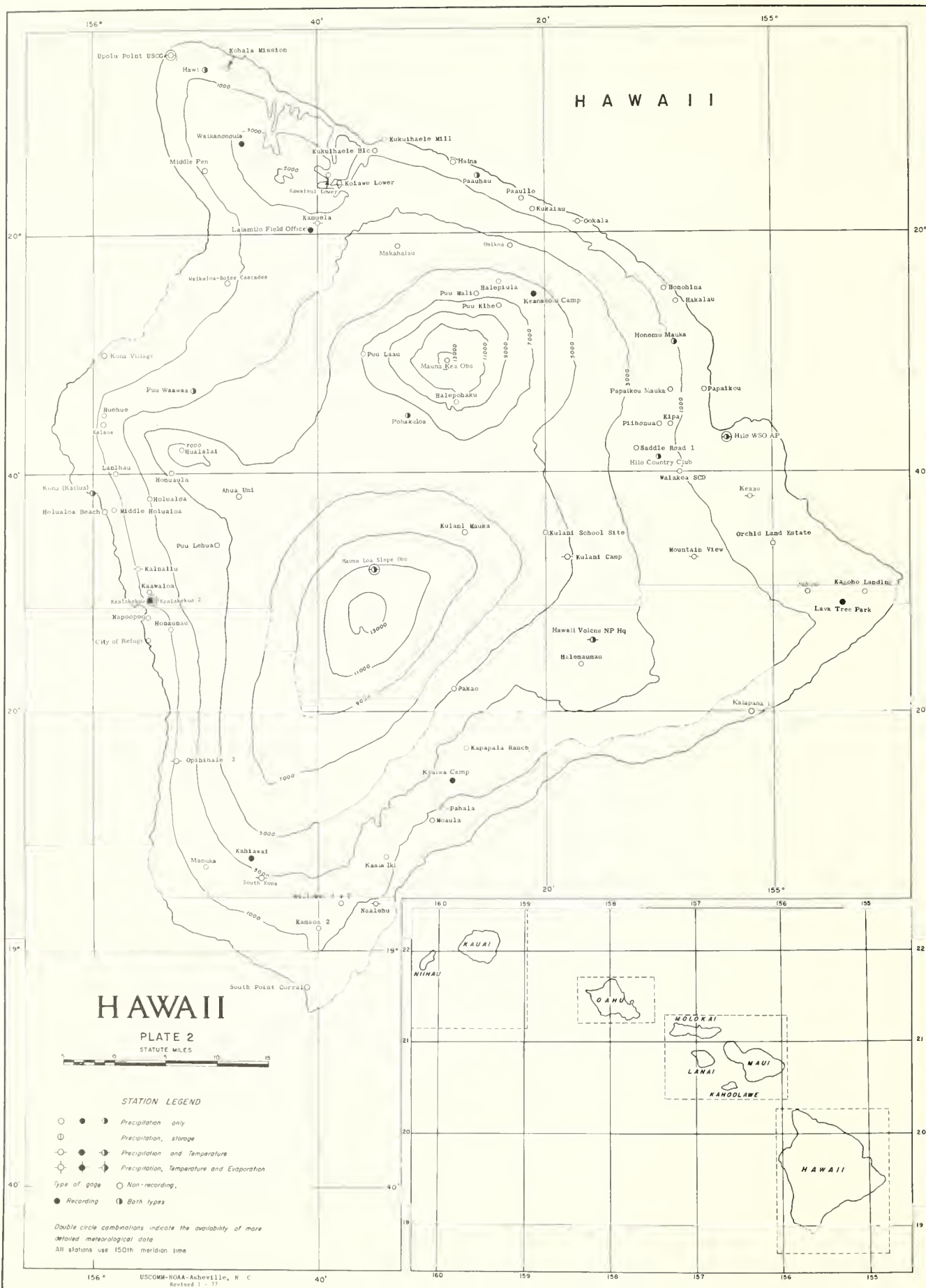
The Pacific includes stations in the Trust Territory of the Pacific Islands, Territory of Guam, American Samoa, and other scattered islands and atolls.

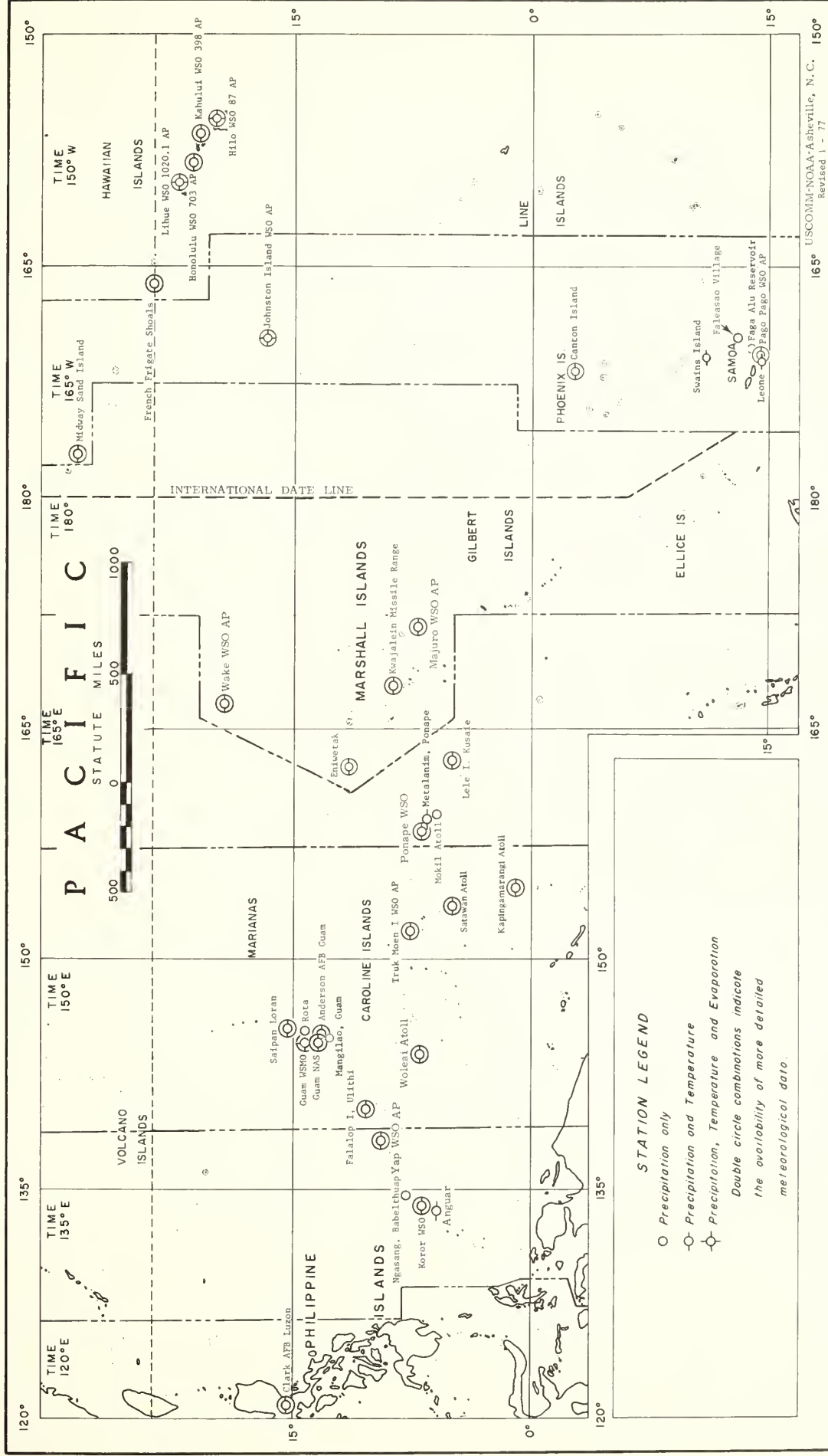
General weather conditions in the U.S. for each month are described in the CLIMATOLOGICAL DATA NATIONAL SUMMARY and STORM DATA.

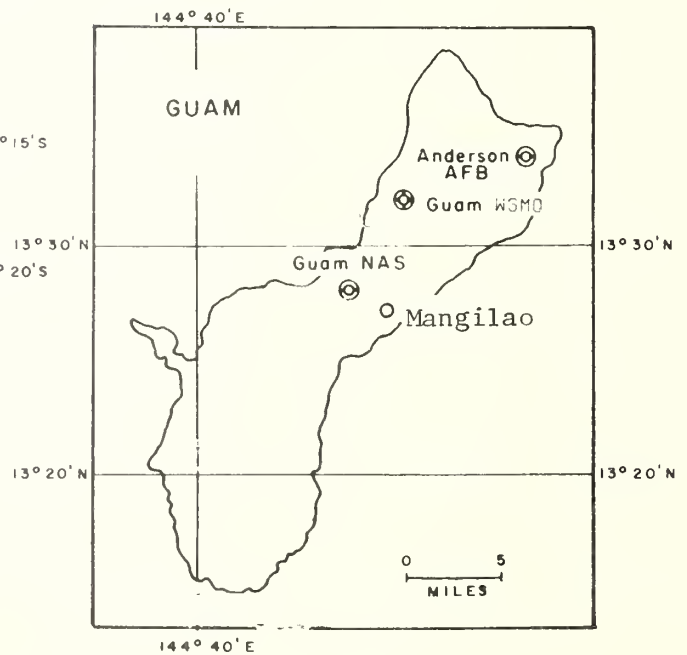
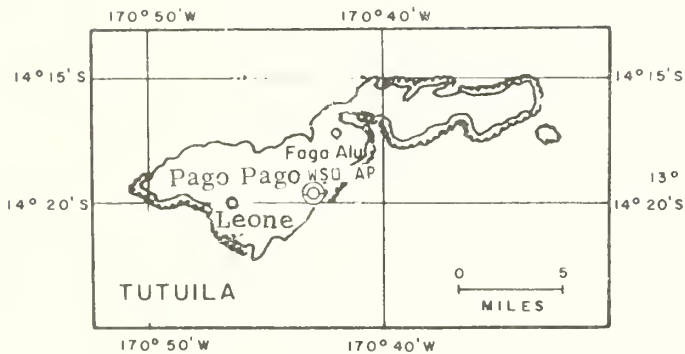
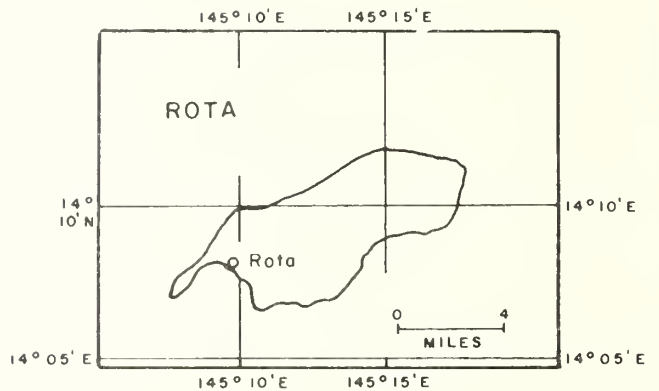
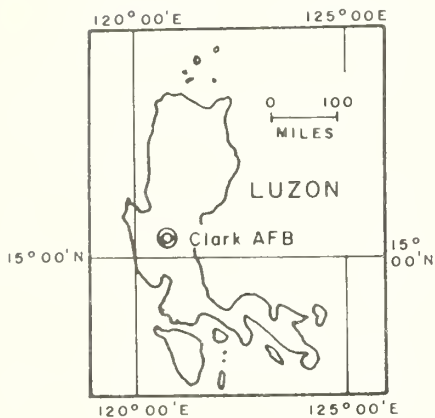
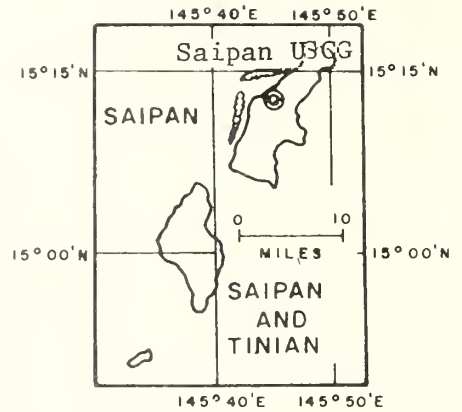
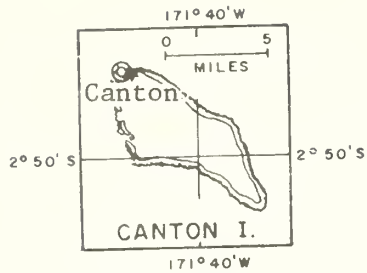
Information concerning the history of changes in locations, elevations, exposure, etc., of substations through 1957 may be found in the publication "Substation History" for this State, price 40 cents. Similar information for regular National Weather Service Offices may be found in the latest annual issue of Local Climatological Data, price 20 cents. Note minimum charge and ordering instructions below.

SUBSCRIPTION PRICE: \$5.10 per year for each section including annual summary; \$8.00 additional for foreign mailing; 40¢ single copy; 30¢ annual summary. There is a minimum charge of \$2.00 for each order of shelf-stocked issues of publications. Make checks payable to Department of Commerce, NOAA; send payments and orders to National Climatic Center, Federal Building, Asheville, NC 28801. Attn: Publications.



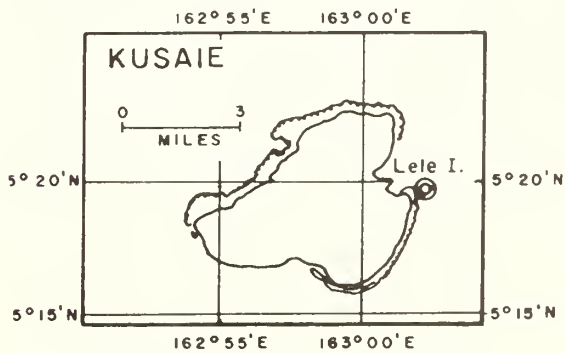
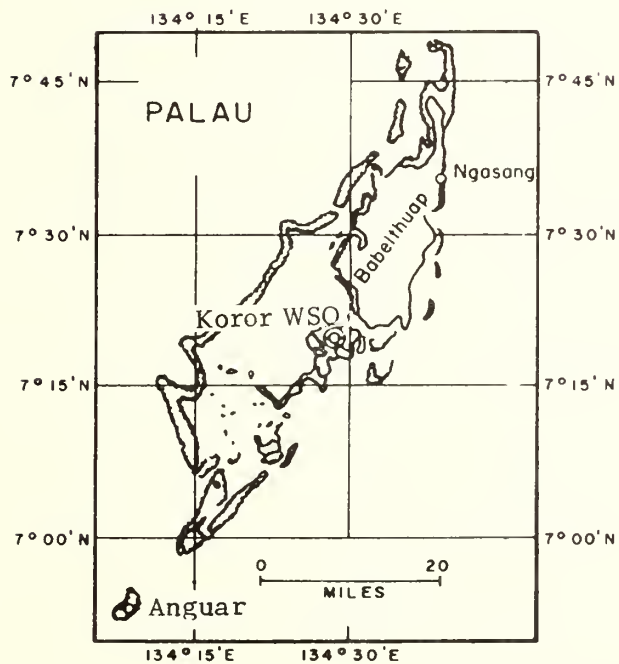
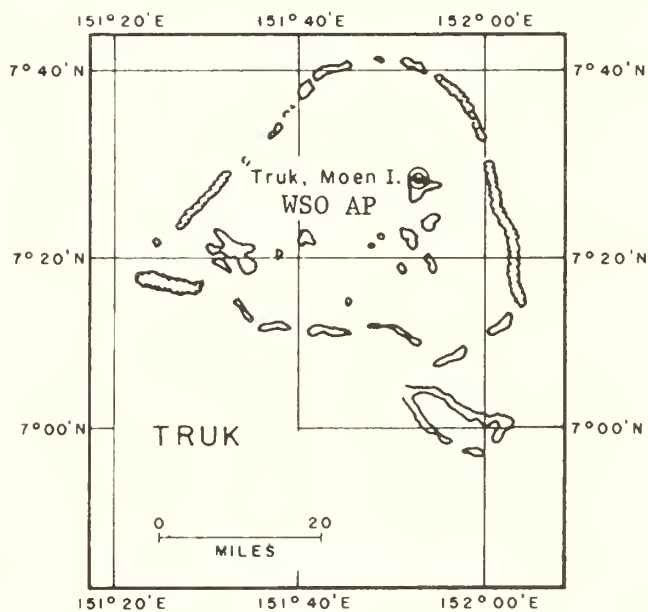
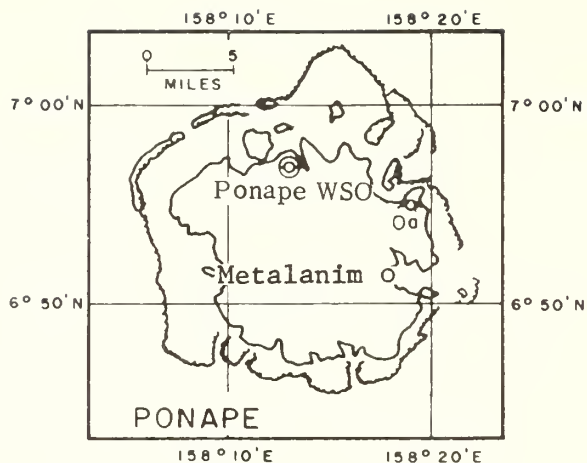
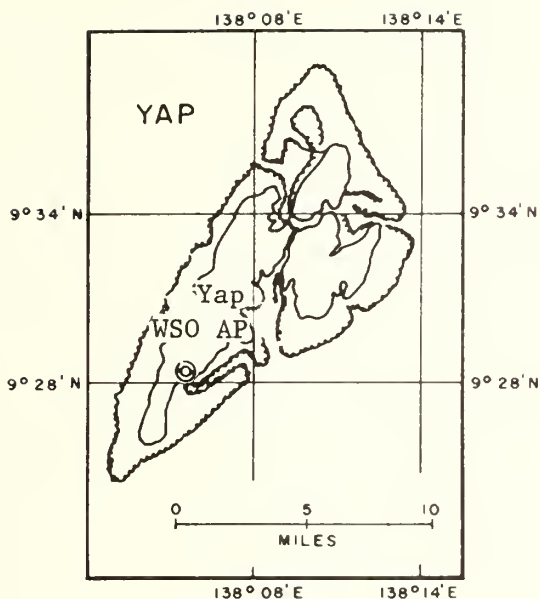




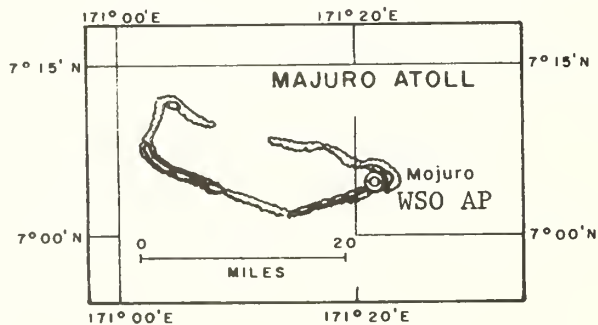
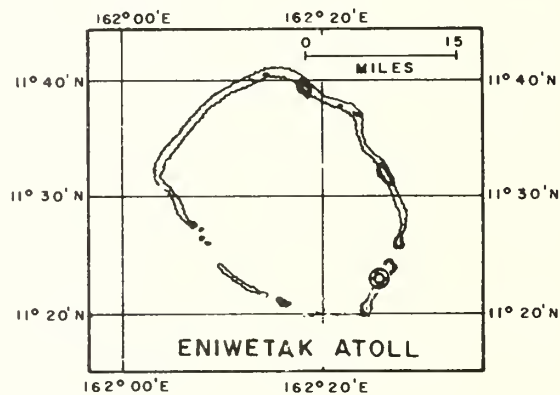
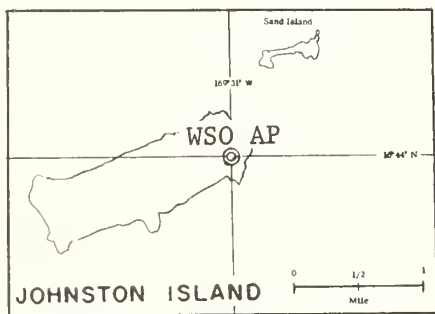
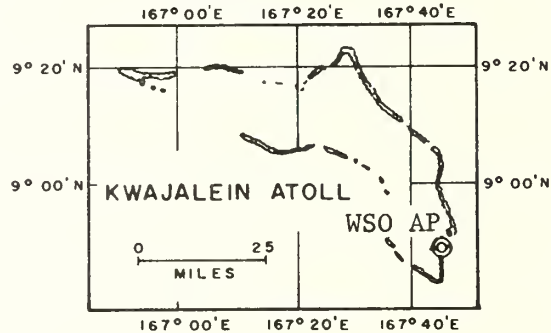
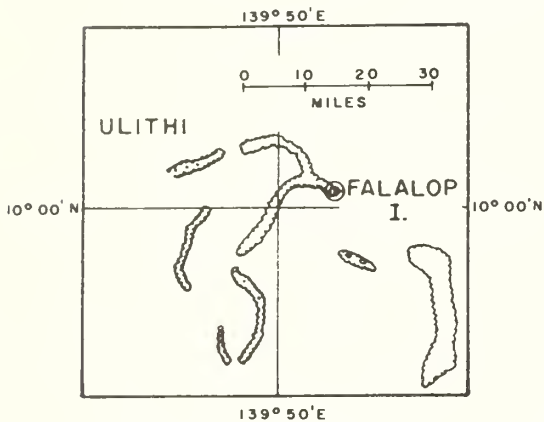
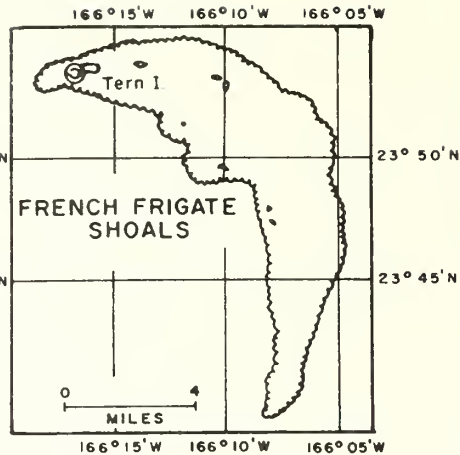
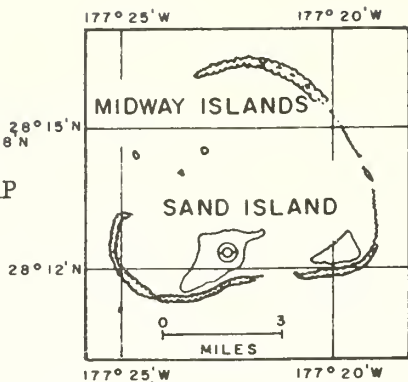
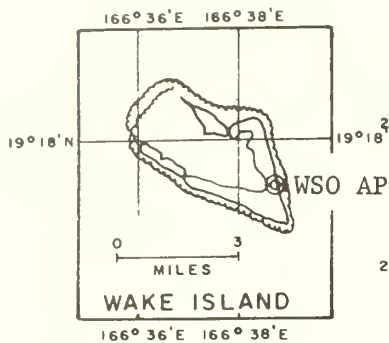


Reef





— Reef





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# Climatological Data

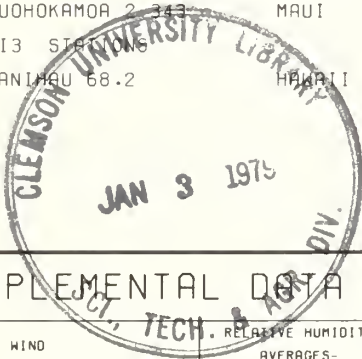


## HAWAII AND PACIFIC

### TEMPERATURE AND PRECIPITATION EXTREMES

HAWAIIAN STATIONS ONLY

HIGHEST TEMPERATURE:	KEAWAKAPU BEACH 260.2	MAUI	96	DATE 02+
LOWEST TEMPERATURE:	MAUNA LOA SLOPE 085	HAWAII	32	DATE 19
GREATEST TOTAL PRECIPITATION:	PUOHOKAMOA 2 243	MAUI	18.00	
LEAST TOTAL PRECIPITATION:	13 STATIONS		.00	
GREATEST 1 DAY PRECIPITATION:	LANIHAU 68.2	HAWAII	5.30	DATE 23



### SUPPLEMENTAL DATA

	WIND (SPEED - M.P.H.)						RELATIVE HUMIDITY AVERAGES- PERCENT				NUMBER OF DAYS WITH PRECIPITATION								PERCENT OF POSSIBLE SUNSHINE	AVERAGE (TENTHS) SKY COVER SUNRISE TO SUNSET
	RESULTANT DIRECTION	RESULTANT SPEED	AVERAGE	FASTEST MILE	DIRECTION OF FASTEST MILE	DATE OF FASTEST MILE	STANDARD OF TIME				TRACE	.01-.09	.10-.49	.50-.99	1.00-1.99	2.00 AND OVER	TOTAL			
							GREENWICH CIVIL													
							12	18	00	06										
GUAM WSMO	-	-	-	19	SE	26	-	81	81	94	0	11	10	4	3	0	28	36	8.9	
HILO WSO 87 AP	28	0.8	5.9	18	E	22	88	83	71	86	3	7	15	3	0	0	28	46	7.0	
HONOLULU WSO 703 AP	6	12.9	13.5	26	NE	18+	79	72	53	73	12	4	1	0	0	0	17	84	6.5	
JOHNSTON WSO AP	9	16.6	17.1	37	E	04	81	80	74	79	7	6	4	1	1	0	19	81	7.3	
KAHULUI WSO 398 AP	5	14.8	15.6	31	E	16+	-	72	54	73	2	7	0	0	0	0	9	71	5.2	
KOROR WSO	23	1.7	5.7	22	NE	23	88	-	82	78	2	6	10	6	3	0	27	45	9.2	
KWAJALEIN MISSILE RGN	11	3.0	7.6	28++	14	14	83	83	74	79	0	11	7	2	4	0	24	-	7.4	
LIHUE WSO 1020.1 AP	6	11.8	12.4	20	NE	19+	82	82	64	76	4	14	7	0	0	0	25	69	6.6	
MAJURO WSO AP	9	2.7	6.1	23	E	13	83	84	74	79	4	6	8	6	2	0	26	66	8.4	
PAGO PAGO WSO AP	12	8.9	11.3	31	NE	23	84	82	73	79	7	8	6	1	0	1	23	37	7.0	
PONAPE WSO	-	-	-	12	SW	07+	94	-	74	81	4	4	8	5	2	1	24	34	7.7	
TRUK,MOEN I. WSO AP	24	1.3	5.8	25	SW	02	89	-	75	74	1	8	7	2	2	2	22	26	9.4	
WAKE ISLAND WSO AP	10	11.2	13.3	28	E	07+	87	90	76	80	2	14	3	4	1	1	25	70	6.5	
YAP WSO AP	26	1.5	6.2	22	SE	24	86	-	79	75	1	7	12	0	3	2	25	36	9.3	

I CERTIFY THAT THIS IS AN OFFICIAL PUBLICATION OF THE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION AND IS COMPILED FROM RECORDS ON FILE AT THE NATIONAL CLIMATIC CENTER, ASHEVILLE, NORTH CAROLINA 28801.

*Daniel B. Mitchell* DIRECTOR  
NATIONAL CLIMATIC CENTER



## MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

HAWAII AND PACIFIC  
SEPTEMBER 1978

STATION		TEMPERATURE										PRECIPITATION												
		AVERAGE MAXIMUM	AVERAGE MINIMUM	AVERAGE	DEPARTURE FROM NORMAL	HIGHEST	DATE	LOWEST	DATE	DEGREE DAYS	NO. OF DAYS				TOTAL	DEPARTURE FROM NORMAL	GREATEST DAY DATE	TOTAL	SNOW - SLEET		NO. OF DAYS			
											MAX.	MIN.	31° OR BELOW	32° OR BELOW					TOTAL	MAX. DEPTH ON GROUND	DATE	.10 OR MORE	.50 OR MORE	1.00 OR MORE
HAWAII																								
ISLAND OF KAUAI																								
ANAHOLA 1114		A																						
KANALOHULU 1075			73.9	55.6	64.8		77 11	45 28		0 0	0 0	0 0	1.51											
KILAUEA POINT 1133			M	M	M		87 13+	71 5		0 0	0 0	0 0	.71		.28	14	.0	0		1	0	0	0	
KOLAA 936		A																						
LIHUE WSO AP 1020.1		//R	85.5	73.5	79.5	.7	88 8	68 28+		0 0	0 0	0 0	5.10	.00	.78	14	.0	0		7	0	0	0	
LIHUE WSO AP 1020.1													1.85		.30	3	.0	0						
MANA 1026													.05											
N. WAILUA DITCH 1051		A											10.77	-.97	.05	10	.0	0		0	0	0	0	
PA. WAINIMA 1115																								
PUEHU RIDGE 1040													.27	-1.54	.12	5	.0	0		2	0	0	0	
WAIHAWA 930		A											1.65	-.11	.33	14	.0	0						
WAIHAI LOWER 1054			81.2	66.8	74.0		83 30+	61 28		0 0	0 0	0 0	8.05	-.66	1.09	22	.0	0		22	5	1	0	
WAIHAI 947			88.8	69.5M	79.2M		92 9+	66 25+		12	0	0	.03	-.63	.03	17	.0	0		0	0	0	0	
ISLAND					74.4								3.00				.0							
ISLAND OF OAHU																								
ALOHA STADIUM-HALAWA			86.8M	72.3M	79.6M		88 28+	69 28		0 0	0 0	0 0	.69				.0	0						
8 Y U LAIE 903.1			86.2	73.4	79.8		87 21+	71 17		0 0	0 0	0 0	2.83		.71	17	.0	0		10	1	0	0	
HONOLULU OBSERV 702.2			89.5	70.1	79.8		92 1	65 25		15	0	0	.19		.07	22	.0	0		0	0	0	0	
HONOLULU WSO 703 AP		R	88.2	72.7	80.5	.1	90 18+	70 28+		4	0	0	.28	-.39	.18	21	.0	0		1	0	0	0	
KANEONE MAUKA 781			81.8	73.0	77.4	.6	85 25	69 17		0 0	0 0	0 0	3.50	-.01	.52	6	.0	0		13	1	0	0	
KOOLAU DAM 833		A											12.00		2.05	20	.0	0		18	9	4	0	
MANDA LYON ARBORETUM			80.2	69.2	74.7		87 28	68 30+		0 0	0 0	0 0	13.03		1.79	17	.0	0		20	11	4	0	
NUUANU RES 4 783		A											7.48	.71	1.52	17	.0	0		15	6	1	0	
OPAEULA 870		A	80.4M	69.0M	74.7M	1.4	84 1	66 22		0 0	0 0	0 0	6.94	-.53	1.00	16	.0	0		15	7	1	0	
PALOLO VALLEY 718		R															.0	0						
WAIHOLE 837		A											7.10				.0	0						
WAIHOLE 896.3			83.9	72.3	78.1		86 2	69 28		0 0	0 0	0 0	2.35		.41	18	.0	0		10	0	0	0	
WAILUA 847		A	86.0	67.1	76.6	.3	89 29+	64 28+		0 0	0 0	0 0	.24	-.43	.06	16	.0	0		0	0	0	0	
WAIKIKI 717.2			88.7	73.3	81.0		90 29+	69 28+		10	0	0	.34		.05	20+	.0	0		0	0	0	0	
WAIMANALO EXP FM 795.1													.91		.18	13+	.0	0		5	0	0	0	
WAIPIAHU 750		A											.32				.0	0						
ISLAND					78.2								3.88				.0							
ISLAND OF MOLOKAI																								
MOLOKAI AP 524			88.7M	71.4M	80.1M		90 29+	67 28		8	0	0	.87		.18	3	.0	0		6	0	0	0	
ISLAND					80.1								.87				.0							
ISLAND OF LANAI																								
LANAI CITY 672		A	78.3	66.7	72.5	.7	81 28	63 30		0 0	0 0	0 0	.33	-1.89			.0	0		0	0	0	0	
ISLAND					72.5								.33				.0							
ISLAND OF MAUI																								
HALEKALHA 8 E S 434		A	66.0	46.5	56.3	.9	72 30+	40 25		0 0	0 0	0 0	2.38		.71	17	.0	0		7	1	0	0	
HALEKALHA R S 338			84.1	71.4	77.8		86 1	69 27+		0 0	0 0	0 0	.91	-.91	.32	17	.0	0		2	0	0	0	
HANA AIRPORT 355		A											3.90		.73	17	.0	0		13	1	0	0	
HONOKOHU 493													7.64				.0	0						
KAAHAPALI AP 453.1			88.7	71.4	80.1		90 28+	66 26		7	0	0	.16		.05	17+	.0	0		0	0	0	0	
KAHULUI WSO 398 AP		R	89.1	72.7	80.9	2.5	92 30	67 30+		10	0	0	.25	-.02	.07	13	.0	0		0	0	0	0	
KAILUA 446			78.6M	69.4M	74.0M	.7	80 12+	67 26		0 0	0 0	0 0					.0	0						
KEANAE 346		A											14.90				.0	0						
KIPAHULU 258													4.81	-1.22	.45	6	.0	0		19	0	0	0	
KULA SANATORIUM 267			75.2	57.9	66.6	.5	79 1	56 27+		0 0	0 0	0 0	.87	-1.06	.62	23	.0	0		2	1	0	0	
LAHAINA 361			90.0	68.0	79.0	1.3	93 10	64 28+		20	0	0	.00	-.25	.00		.0	0		0	0	0	0	
PAJA 406													1.36	.51	.30	17	.0	0		4	0	0	0	
WAILUKU 386		A											.24	-.25			.0	0						
ISLAND					73.5								3.12				.0							
ISLAND OF HAWAII																								
HAWAII VOLCNS NP HQ 54		R	71.1	55.4M	63.3M	.3	75 7	52 27+		0 0	0 0	0 0	3.26	-1.32	.54	19	.0	0		13	1	0	0	
HILO WSO AP 87		A	83.2	69.1	76.2	.6	85 17+	66 6		0 0	0 0	0 0	5.44	-2.00	.71	9	.0	0		18	3	0	0	
HUEHUE 92.1													4.26		1.94	21	.0	0		7	3	1	0	
KAIHALUO 73.2			79.6	61.0	70.3		82 16+	59 28+		0 0	0 0	0 0	13.19		2.99	2	.0	0		14	9	6	0	
KAPOHO BEACH 93.11			86.9M	69.5M	78.2M		90 29	68 25+		1	0	0	3.87		.45	20	.0	0		0	0	0	0	
KEARU 92																	.0	0						
KONA (KAILUA) 68.3		A					88 13+	69 21+		0 0	0 0	0 0	1.33				.0	0						
KUKUIHALE HIC 199													2.22		.40	5	.0	0		7	0	0	0	
KULANI CAMP 79			66.7M				72 1	50 25+		0 0	0 0	0 0	3.84		.60	19	.0	0		1	0	0	0	
PAHALA 21		A											.10		.04	29+	.0	0		0	0	0	0	

SEE REFERENCE NOTES FOLLOWING STATION INDEX

# MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

HAWAII AND PACIFIC  
SEPTEMBER 1978

STATION	TEMPERATURE										PRECIPITATION																
	AVERAGE MAXIMUM	AVERAGE MINIMUM	AVERAGE	DEPARTURE FROM NORMAL	HIGHEST	DATE	LOWEST	DATE	DEGREE DAYS	NO. OF DAYS				TOTAL	DEPARTURE FROM NORMAL	GREATEST DAY	DATE	SNOW, SLEET			NO. OF DAYS						
										MAX.	MIN.	80° OR ABOVE	70° OR BELOW					32° OR ABOVE	32° OR BELOW	32° OR ABOVE	32° OR BELOW	TOTAL	MAX. DEPTH ON GROUND	DATE	1.0 OR MORE	.50 OR MORE	1.00 OR MORE
HAWAII																											
PUUKOHOLA HEIAU 98.1	91.9M	69.7M	80.8M		95	13	62	27		28	0	0	0	.96		.68	23	.0	0		2	1	0				
SOUTH KONA 2.31	78.7	60.4	69.6		83	12	55	26		0	0	0	0	1.23		.38	21	.0	0		4	0	0				
WAIKAKA SCD 88.2														9.34		1.36	21	.0	0		18	7	2				
ISLAND			73.1											4.09				.0									

SEE REFERENCE NOTES FOLLOWING STATION INDEX

## MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

HAWAII AND PACIFIC  
SEPTEMBER 1978

STATION		TEMPERATURE										PRECIPITATION													
		AVERAGE MAXIMUM	AVERAGE MINIMUM	AVERAGE	DEPARTURE FROM NORMAL	HIGHEST	DATE	LOWEST	DATE	DEGREE DAYS	NO. OF DAYS				TOTAL	DEPARTURE FROM NORMAL	GREATEST DAY	DATE	SNOW, SLEET		NO. OF DAYS				
											MAX.		MIN.						TOTAL	MAX. DEPTH ON GROUND	DATE	1.00 OR MORE	.50 OR MORE	.10 OR MORE	
											90° OR ABOVE	87° OR BELOW	82° OR BELOW	80° OR BELOW											
PACIFIC																									
EAST OF 180TH MERIDIAN																									
ATU'U														10.17		4.34	1				12	6	2	0	5
CANTON ISLAND		89.1M	76.2M	82.7M		90	27+							1.81											
FALEASAO VILLAGE		84.2	78.6	81.4	.5	85	30+	74	24+					17.00		3.07	24				21	13	5		
JOHNSTON IS WSO AP	R	86.1	70.7	78.4	- 1.1	90	17	66	20					2.89	.84	1.15	20				6	2	1		
FRENCH FRIGATE SHOALS														.53	- 1.44	.15	29				2	0	0		
MIDWAY SAND ISLAND		86.2	75.6	80.9	2.2	89	26	70	17					4.28	.42	1.16	17				7	3	1		
PAGO PAGO WSO AP	R	84.3	74.7	79.5	.5	88	27	67	19+					4.71	- 1.37	2.41	1				8	2	1		
WESTERN PACIFIC ISL. NORTH OF 12 N																									
AGAT		84.4	77.0	80.7	.9	87	30	73	26					17.20		2.00	28+				24	12	6		
ANDERSEN AFB GUAM		84.4	73.6	79.0	.8	90	26	70	5					10.52	- 3.04	1.68	18				17	6	4		
CLARK AFB LUZON														15.52	1.68	2.66	27				20	11	4		
DECEBO														12.71		2.20	19				22	10	4		
GUAM NAS																									
GUAM WSO		86.3	73.1	79.7	.6	88	25+	68	28					10.01	- 4.07	1.92	26				17	7	3		
INARAJAN AG STN	R													11.11		3.34	26				15	8	3		
INARAJAN - NASA		88.2	73.8	81.0		90	26+	71	30+					10.84		2.41	4				15	8	3		
MANGILAO														10.37		1.43	22				14	7	5		
ROTA																									
SAIPAN LORAN																									
UMATAO														12.39		2.00	26				24	6	4		
WAKE ISLAND WSO AP	R	89.5	78.6	84.1	1.5	92	21	74	14					7.58	1.89	2.13	14				9	6	2		
YIGO														14.45											
CAROLINE AND MARSHALL ISLANDS																									
ENEWETAK																									
FALALOP I ULITHI ATOLL																									
KAPINGAMARRANGI ATOLL	R	87.0	74.8	80.9	.7	90	22	70	25					10.85	- 2.14	1.64	26				19	9	3		
KOROR WSO	R	87.7	77.5	82.6	.1	89	30+	72	22					8.75	- 2.12	1.57	16				13	6	4		
KWAJALEIN MISSILE RGN																									
LELE I KOSRAE		87.0	76.1	81.6	.2	89	15+	73	4					9.73	- 4.66	1.88	14				16	8	2		
MAJURO WSO AP	R	87.4M	72.9M	80.2M		89	30+	70	25					0		3.40	14				10	3			
METALANIM																									
MOKIL ATOLL																									
NGASANG-BABELTHUAP																									
PONAPE WSO	R	89.6	72.2	80.9	.3	92	29+	68	17					19	- 5.32	2.94	6				16	8	3		
SATAWAN ATOLL																									
TRUK MOEN I WSO AP	R	88.7	75.1	81.9	.9	91	27+	73	15+					10	14.98	1.91	6.12	27				13	6	4	
WOLEAI ATOLL		88.8	72.0	80.4		92	8	68	30+					11	11.80		2.32	6				20	8	3	
YAP WSO AP	R	87.1	73.2	80.2	- 1.1	89	29+	70	17					0	19.17	6.08	6.85	14				17	5	5	

SEE REFERENCE NOTES FOLLOWING STATION INDEX

# DAILY PRECIPITATION

HAWAII AND PACIFIC  
SEPTEMBER 1978

STATION	TOTAL	DAY OF MONTH																																	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31			
HAWAII																																			
ISLAND OF KAUAI																																			
ANAHOLA 1114	A	1.51				.41		.13				.16	.03	.19	.08	.02					.13										.05	.16		.03	
BAVOESBOND STA 985	A	2.42				.22	.01	.03	.05			.23	.03	.04	.17	.20					.13	.20	.21	.27							.02	.01		.03	
EAST LAHAI 934	A	4.77	.01			.50	.07	.07	.09			.64	.03	.32	.67	.18					.15	.38	.32	.45							.02	.01		.02	
ELELE 927	A	.75				.02	T					.11	.01	.02	.02	.03					.03	.15	.05	.06								.03			
HUALAIA 1110	A	2.03				.76		.11	.03					.18	.06	.20	.07	.06			.18								.17			.02			
HALENANAH 1008	A	4.59	.03				1.13	.12		.04		.35	.05	.26	.34	.32					.76	.09	.18	.42	.29						.15	.03		.03	
HANALEI TUNNEL 1053	A	10.80																																10.80	
HUKILO 946	A	.12				.08															.04														
ILILILUA INTAKE 1050	A	11.95	.06				.92	.29		.23	.19			.72	.28		.14	.80	1.78			2.68	.27	1.08	.72	1.18				.38	.12	.02			
INTAKE WAINIPA PC 1086	A	7.21								1.40	.05																	3.29			.16		.01		
KANALOHULU 1075	A	.71		.05	.02	.04		.02	.03					.02	.28	.03		.02	.06			.04	.04	.04									.02		
KANEHA RESERVOIR 1092	A	5.03	.10				.71	.16		.24	.02			.68	.26		.21	.32	.30			.76	.05	.20	.25	.05				.61	.07	.02		.02	
KELAIA 1112	A	1.37				.35				.07	.02			.20	.02		.17	.10	.11				.12	.02								.03			
KEKAMA 944	A	.08				.03															.04			.01											
KILAUEA 1134	A	3.01	.22	.24	.10		.06	.03		.21	.04	.11		.20	.09	.14		.03	.27			.14	.34	.08	.03	.35	.26						.07		
KILAUEA POINT 1133	A						.41	.01		.11	.01			.35	.02		.03	.11	.28																
KOLO 1033	A	.08																																	
KOLUA 936	A	5.10					.77	.17		.11	.06			.30	.04		.66	.78	.21			.59	.05	.27	.48	.40					.13	.03		.05	
KOLUA LN (HAK) 940.1	A	.89				.10				.05	.02			.02	.03	.02		.02	.04			.12	.16	.03	.01	.01									
KOLUA MAUKA 994	A	5.57					.93	.06						.76			.08															1.41			
KUKUIULA 935	A	2.59	.01				.43	.05		.02	.07			.14	.01		.15	.67	.08			.23	.10	.10	.28	.16				.05	.03		.01		
LIHUE VARIETY ST 1062.1	A	4.19	.03				.53	.07		.09	.18						.12	.57	.36			.68	.11	.09	.10	.17									
LIHUE 1020	A	2.22	.02				.47	.14		.04	.03			.29			.10	.22	.10			.40	.01	.05	.12	.10					.13				
LIHUE WSO AP 1020.1	A	1.85	.03	.05	.30					.27	.01		.03	.02	.03		.07	.01	.04			.15	.10	.25	.07	.13	T	.07	T		.02	.17	.01		
MAKAELI 965	A	.14																			.05	.02		.03	.03								.01		
MAHA 1026	A	.05												.05																					
MOHAI UPB CROSS 1083	A	.21				.07			.07																										
MOHAI 1145	A	1.74				.57								.37																	.33	.4			
POLINA WAIKALE 1047	A	.00																																	
NIU RIDGE 1035	A																																		
N WAILUA DITCH 1051	A	10.77	.08				.88	.20		.21	.10			.98	.34		.36	.63	.66			2.45	.26	1.14	.92	1.19				.24	.11			.02	
N WAILUA RIVER 1055	A	9.20																																9.20	
PH WAINIPA 1115	A						.83	.08		.34	.01			.43	.13		.26	.27	.69			1.55	.16	.65	.93	.74				.11	.08				
PRINCETON BRANCH 1117	A		.04							.19	.03			.50	.26		.09	.15				1.22	.38	.66	.17					.10	.02				
PUEHU RIDGE 1040	A	.27				.12																											.05		
PUIHI 1013	A	1.62					.26	.02		.03	.02			.07			.08	.08	.08			.15	.04	.11	.38	.26					.04				
WAINIPA 930	A	1.65					.06	.04		.01	.01			.08			.24	.33	.05			.20	.04	.21	.16	.13							.01		
WAIKAI LOWER 1054	A	8.05	.09	.29	.16		.21	.12	.27	.16	.09	.18		.12	.06	.19	.14	.53	.77	.79	.49	.21	.26	.45	.59	1.09	.20	17		.03	.08	.01	.30		
WAIKAI UPPER 1052	A	9.44	.04	.04	.11		.20	.16	.30	.25	.13	.13		.16	.11	.22	.13	.96	1.61			1.20	.58	.48	.20	.13	.54	1.20	.29	.03	.11	.02	.02	.09	
WAIKAI 943	A	.03																				.03													
WAILUA KAI 1055	A	2.80					.28	.06		.05	.02			.20	.46		.05	.40	.20			.37		.09	.10	.04				.37	.02	.09			
WAILUA 947	A	.03																				.03													
WEST LAHAI 931	A	2.73					.39	.08		.06	.03			.22	T		.20	.86	.07			.25	.08	.12	.16	.17				.02			.02		
ISLAND OF OAHU																																			
ALPHA STADIUM-WAILAUA	A	.69					.14	.03		.01				.03	.03						.03		.21	.03	.08	.02								.01	
BRECKENRIDGE PUMPING STA	A	1.28	.19		.01		.09	T	.04					.04																					
B Y U LAIE 903.1	A	2.83	.14		.01		.03	.22	T	.11		.02		.04	.03		.07	.04	.01			.32	.71	.12	.11	.25	.25	.08	.12	.03	.08	.03		T	
CAMPBELL JND PK 702.5	A	.02																																	
COCONUT ISLAND 840.1	A	1.62					.16	.10		.07	T			.04	.16		.10	.21				.34	.01	.07	.26	.07					.03				
EWA PLANTATION 741	A	.12																																	
HONOLULU OBSERV 702.2	A	.19																																	
HONOLULU WSO 703 AP	A	.28	.02	T	T	T	T	T						.05	T		.05	T				.05	.02	T	T	.18				.07					
KAEHA POINT 841.3	A	.53								.12							.01	.02																	
KAHANA 883	A	17.04					.40	.07						3.68								5.03								4.26					
KALAHAI RES SITE 777	A	7.16	.28		.04		.12	.80	.76		.08	.06	.12	.06	.09	.58		.72	.08	.28		.66	1.12	.38	.30	.14	.10	.28		.12					
KANEHE MAUKA 781	A	3.50	.03	.11	.04		.01	.35	.52	.14		.02	.02	.05	.23	.29	.03	.19	.24	.22		.02	.18	.45	.06	.12	.13		.05						
KAPALANA 773	A	3.67	.13					.20	.05	.07				.05	.04	.08	.35	.05				1.44	.08	.27	.50	.33				.03					
KAWAHADAI 841	A	.29						.05	T	.03																									

# DAILY PRECIPITATION

HAWAII AND PACIFIC  
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STATION	TOTAL	DAY OF MONTH																															
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
HAWAII																																	
WAIKAEKAUA 605	A	.18	x	x	x	x	x	x	x	x	x	x	x	x	x	.01	x	x	x	x	x	x	x	x	x	x	x	x	x	x	.17	x	
ISLAND OF MAUI																																	
ALUANI 252	A	.53	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	.50	x	x	x	x	x	x	x	x	x	x	x	.03	x	
HALEKALUA 477	A	2.38	.01	.03	.04	.01	.02	.10	—	—	.34	—	—	.06	.27	.01	.08	.71	.01	.08	.28	.11	.07	.01	.11	.03	—	—	—	—	—	—	—
HALEKALUA RANCH 432	A	.78	x	x	x	x	x	x	x	x	x	x	x	x	x	x	.47	x	x	x	x	x	.31	x	x	x	x	x	x	x	x	x	
HALEKALUA R S 338	A	.01	.01	—	.02	T	—	.01	—	—	.09	T	—	.02	.09	T	.02	.32	T	.06	.14	.01	.03	.02	.02	.05	—	—	—	—	—	—	—
HALEKALUA 423	A	.98	.01	x	x	x	.14	x	x	x	.05	—	—	.14	x	x	x	.32	.03	.09	.14	.01	x	x	x	.05	—	—	—	—	—	—	
HAMAUPAOKO 485	A	3.64	.08	.03	.02	.08	.01	.01	.02	.03	.02	.08	.02	.04	.05	.28	.01	.18	1.10	.15	.12	.48	.42	.15	.04	.08	.02	.01	—	—	—	—	.11
HANA AIRPORT 355	A	3.90	.22	.05	.08	.19	.02	.23	.11	.02	.13	.10	.25	.08	.20	.03	.42	.73	.07	.17	.20	.20	.05	.05	.03	.05	.08	.03	.07	.03	.01	.01	
HOLUA CABIN 259.5	A	1.59	x	x	x	x	.84	x	x	x	.01	x	x	x	x	x	.48	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	
HONOKAHU 480	A	7.10	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	7.10	x	
HONOKAHU 403	A	7.64	x	x	x	x	.75	.05	.16	.12	x	.70	.05	.10	.30	x	x	1.58	.22	.30	.85	1.25	x	x	x	.85	.10	.20	.06	x	x	x	
HONOLUA FIELD 40 404	A	2.47	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	2.47	x	
HONOLUA GULCH 341	A	4.40	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	4.40	x	
KAHANAPII AP 403.1	A	.16	—	.01	T	.01	—	.01	—	—	—	—	—	.05	—	—	.01	.05	.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—
KAHOMA INTAKE 374	A	4.20	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	4.20	x
KAHULUI 450 398 AP	A	.25	—	.05	T	—	—	—	—	—	.05	T	—	.07	—	—	.04	—	—	.01	.01	—	—	—	.02	—	—	—	—	—	—	—	—
KAILI 436	A	6.07	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	6.07	x	
KAILUA 446	A	1.47	x	.22	x	x	.84	.18	.85	.30	x	.81	.17	.19	.26	.03	x	2.40	.67	.61	.60	.60	x	x	x	.46	.04	.08	x	.04	x	x	
KAILUA INTAKE 375	A	1.47	x	x	x	x	.05	T	—	—	—	—	—	.58	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	
KEANUA 410	A	.18	—	.06	—	.02	—	T	—	—	T	—	—	.02	—	—	.08	—	—	T	—	—	—	—	—	T	—	—	—	—	—	—	—
KEANUA 346	A	14.90	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	14.90	x	
KEAWAKAPU BEACH 260.2	A	.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
KIHEI 311	A	4.81	.20	.34	x	x	.30	.45	.32	.36	x	x	.20	.31	.34	.15	.10	.12	—	—	.22	.26	.31	.37	—	—	—	—	—	—	—	—	
KIPAHULU 258	A	24.00	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	24.00	x
KUKUI 380	A	.87	—	—	—	—	—	—	—	—	.02	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
KULA SANATORIUM 267	A	.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
LAHAINA 361	A	2.40	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	
LAUNIPUPO INTAKE 376	A	.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
LAUNIPUPO VILLAGE 372	A	.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
LUPU UPPER 442	A	9.30	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	9.30	x
MAHIAHINA 466	A	1.34	x	x	x	x	.14	.05	x	x	x	x	x	x	.06	—	.02	.75	—	.06	.06	.12	x	x	x	x	x	x	x	x	.08	x	
MAHIAHINA 475	A	4.70	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	4.70	x
MAKALELE FIELD 60 407	A	3.84	x	x	x	x	x	x	x	x	x	x	.88	x	x	x	x	.95	x	x	x	x	x	x	x	1.75	x	x	x	x	.26	x	
OLINDA 332	A	3.95	x	x	x	x	.36	x	x	x	x	x	x	1.15	x	x	x	x	x	1.90	x	x	x	x	x	x	x	x	x	x	x	x	
OLINDA 296.1	A	.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
PAAKA 350	A	660.70	1.13	x	x	x	1.19	x	x	1.06	x	x	1.20	.26	.30	.36	.09	x	x	3.70	x	2.30	x	1.56	x	x	1.01	x	x	x	x	.27	x
PAJA 406	A	1.36	T	.05	.05	.03	x	x	x	x	x	x	x	x	.05	.25	.09	.03	.30	.05	x	x	x	x	x	x	x	x	x	x	x	x	
PANILEI HULU 250.2	A	2.00	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	
PANALAKUA BRIDGE 307.2	A	.03	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	2.00	x
POLIPOLI SPRINGS 267.2	A	1.58	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	1.58	x
PUNAHOU 2 343	A	18.00	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	18.00	x
PUNAHOU 306	A	.13	—	.08	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
SPRECKELSVILLE 400.2	A	.44	—	.05	—	.01	—	—	.01	—	.07	—	—	.11	—	—	.05	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
TWIN GATES 261.3	A	.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
UH ADRI RES CNTD 324.5	A	.42	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
UKULELE 333	A	2.50	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	2.50	x
UKULELE 301	A	.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
ULUPALAKUA RANCH 250	A	.84	—	—	—	.03	—	.04	—	—	.01	—	—	.02	—	—	.02	—	.02	—													



# DAILY PRECIPITATION

HAWAII AND PACIFIC  
SEPTEMBER 1976

STATION	TOTAL	DAY OF MONTH																															
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
HAWAII																																	
NAALEHU 14	A	.35				.22						.02								.08				.02									
HAPPOPOO 26	A	3.44	x	x	x	x	.83	x	x	x	x	.33	x	x	x	x	x	.04	x	x	x	x	x	x	x	2.24	x	x	x	x	x	x	
OGALA 223		4.00	.57	.30	.13	.11			.21	.03	.33	.07	.02	.20	.16	.02		.05	.45	.33	.28	.39	.02	.18	.13	.01							
OPIMIHAE 2 24.1		5.08	.33	.20	.25	.14	T	.26	.13	.25	.33	.52	.05	T	.65	T			.11	T	.02	.06	.01	.18	T	.06	.02	.19	T				
ORCHID LAND EST 91.5	A	2.60	x	x	x	x	x	x	x	x	x	x	x	x	x	x	.01	.05	2.06	x	x	x	x	x	x	2.45	x	.15	x	x			
PAAUHAU 217		1.66	.30	.28	.05			.01		.35		.03		.13					.16	.02	.12	.01			.20								
PAAUHAU 221		2.12	.38	.35	.04				.31	.01	.05	T	.01	.17					.11	.01	.35	.01		.16	.13	T							
PAHALA 21	A	.10												.02					.02	T													
PAHOA 65		x	.54	x	x	x	1.14	.08	.18	.29	x	.65	.12	.65	.75	.28	x	x	.43	.25	.52	.53	.22	x	x	.70	.04	.14		.04	.04	x	
PAPAIAKU 144.1		x	.30	x	x	x	.06	.06	.06	.43	x	x	1.08	.31	.45	.70	.04	x	x	.23	1.10	.51	.05	.22	x	x	.62						
PAPAIAKU MAUKA 140.1		x	.61	x	x	x	1.13	.03	.11	.69	x	1.50	.33	.77	.53	.03	x	x	.78	.88	.43	.55	.27	x	x	.49	.01		.01	.03	x		
PIIHONUA 89	A	11.20	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x		
PUUKOHOLA HEIAU 88.1		.06																															
PUU LEHUA 73	A	1.75	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	.02	x	.68	x	x	x	.26	x	x	x	x	1.75	
SOUTH KONA 2.31		1.23			.15		.05	.01		.36		.18		.08								.02	.38										
UPOLI POINT USCG 159.2		.25		.04	T	T	T	T	T		T	.02	.03	T	T				.01	.05	.06	.02	.02			T					T		
WAIAKEA SCO 88.2		9.34	1.20	.31	.28	.20	.16	.04	.05	.42	.26	.78	.20	.07	.37	.77	.05	.04	.02	.30	.61	.60	1.36	.57	.02	.21	.22			.03			
WAIKALOA-BOIS CAS 95.8		.23		x	x	.23																											

SEE REFERENCE NOTES FOLLOWING STATION INDEX

# DAILY PRECIPITATION

HAWAII AND PACIFIC  
SEPTEMBER 1978

STATION	TOTAL	DAY OF MONTH																														
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
PACIFIC																																
EAST OF 180TH MERIDIAN																																
ATU U	10.17	4.34	.21	.07																												
CANTON ISLAND	1.01	.13																														
FALEASAO VILLAGE	17.00	.45	.04	x																												
JOHNSTON IS WSO AP	2.00	T	.01	T																												
FRENCH FRIGATE SHOALS	.53	.01																														
MIDWAY SAND ISLAND	4.20	.06	.20	.05																												
PAGO PAGO WSO AP	4.71	2.41	.16	T																												
WESTERN PACIFIC ISL. NORTH OF 12 N																																
AGAT	17.20	.10																														
ANDERSEN AFB GUAM	10.52	.02																														
CLARK AFB LUZON	15.52		.05	1.60																												
DEDEO	12.71	.21	T																													
GUAM NAS																																
GUAM WSO	10.01	.06																														
INARAJAN AG STM	11.11	.15																														
INARAJAN - NASR	10.84	.14	.03																													
MANITLAD	10.37	.04	.05																													
ROTA																																
Saipan LORAN																																
UMATAC	12.39																															
WAKE ISLAND WSO AP	7.58	.03	.08																													
YIGO	14.45	1.10	.03																													
CAROLINE AND MARSHALL ISLANDS																																
ENHETAK																																
FALALAP I ULITHI ATOLL																																
KAPINGMARANGI ATOLL																																
KOROR WSO	10.85		.20	.01	T	.04	.80	.26	.07	.58	.18	.09	.25	1.28	.24	.36	.62	.17	1.39	.73	.19	T	.40	.54	.62	1.64	.01	.02	.15			
KWAJALEIN MISSILE RM	8.75		.13	.08	.44	.19		.08	.08	.09	1.39	.12	.02	1.50	.15	1.57			.08	.01	.60	1.16	.51	.03	.01	.28	.16	.04	.02	.02		
LELE I KOSRAE																																
MAJURO WSO AP	9.73	.47	T	.44	.57			T	1.40	.35	T	.06	.27	1.88		.04	.75	.20	T	.01	.20	.20	.76	.03	.81	.08	.52	.13	.02	.54		
METALAMTH					.25	.12	.50	.80	.12	.11	.33	.20	.11	.90	3.40	T	T		.87	.60	.30	.50	1.11	.22	.20	1.83	.25	.30	.70	.08		
MOELI ATOLL																																
NGASANG-BABELTHUAP																																
POMAPE WSO	11.44	.49	.21	.02	.24	.13	2.94	.15	T	T		.50	.48		.94	.06			1.86	.67	.56	T	.01	1.15		.20	.02	.55	T	.26		
SATAHAN ATOLL																																
TAUK MOEN I WSO AP	14.98		.13	.01	1.96		.14	2.14	.02		.08	.04		T	.52	.18	.04	.11	.07	.03	.04	.49	1.35			6.12	.12	.45	.94			
WOLEAI ATOLL	11.80	.19	.12		T	2.32	.58	.45	.27	.50	.26	T	1.01	.01	T	.87	.06		.22	2.02	.71	.47	.18	.19	.06	.12	.40	.05	.15	.58		
YAP WSO AP	19.17	.18	.10	.05	.24	1.16	.24	.01	.43	.01	.11	T	1.55	6.85	.07	.10	5.38		.16	.45		.01	1.27		.06	.14	.07	.29		.24		

SEE REFERENCE NOTES FOLLOWING STATION INDEX

# DAILY TEMPERATURES

HAWAII AND PACIFIC  
SEPTEMBER 1978

STATION		DAY OF MONTH																															AVERAGE
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
HAWAII																																	
ISLAND OF KAUAI																																	
KANALOHULUHULU 1075	MAX MIN	71 56	75 57	74 60	73 57	74 52	76 57	75 59	75 56	71 58	75 54	77 50	73 59	71 59	73 58	75 59	73 60	74 56	75 56	74 59	74 58	75 57	75 57	75 55	73 57	76 56	73 57	72 47	74 45	76 46	70 50	73.9 55.6	
KILAUEA POINT 1133	MAX MIN	85 76				87 71	86 74	87 73	86 75			87 72	86 74	87 73	86 74	85 74			86 74	86 75	85 72	84 73	84 74			86 73	86 73	86 74	86 72	86 74			
KOLA LN (MAK1 940.1	MAX MIN	87 78	85 75	86 78	87 78	86 76	88 74	88 73	88 74	87 73	87 73	88 79	88 78	87 75	87 74	88 76	88 76	87 76	85 77	87 78	87 75	87 75	88 78	87 73	86 76	88 73	87 71	88 72	89 75	89 72	87 75	87.2 75.2	
LIHUE WSO AP 1020.1	MAX MIN	87 77	87 76	84 71	85 73	84 75	86 73	86 75	88 75	86 75	86 75	85 74	85 75	85 73	85 73	85 73	85 71	85 72	85 76	85 77	86 75	86 72	86 76	86 74	86 70	86 72	85 75	85 71	85 68	85 68	85 72	86 76	85.5 73.5
NIU RIDGE 1035	MAX MIN	90 66			88 64	90 64	87 64	89 66	90 66			88 64	89 64	87 65	90 66				88 66	88 65	87 64	84 65	86 65				89 62	86 63	85 65	86 65	84 64		
WAIHAI LOWER 1054	MAX MIN	80 68	81 69	82 69	81 67	80 66	82 67	82 69	81 67	82 68	81 68	82 66	83 69	80 69	82 69	81 68	79 69	80 69	83 69	80 68	80 69	80 69	81 68	81 65	80 63	81 62	82 64	81 63	83 61	83 64	83 64	81.2 66.8	
WAIMEA 947	MAX MIN	91 72	88 70	90 78	81 70	87 68	92 68	87 71	91 69	92 67	90 70	90 69	91 69	87 70	87 70	90 70	91 71	88 71	88 71	88 68	88 66	89 66	90 67	89 67	88 67	90 67	88 66	88 69	88 69	88 69	90 70	88.8 69.5	
ISLAND OF OAHU																																	
ALOHA STADIUM-HALAWA	MAX MIN	87 75	88 75			88 72	84 71	87 72	87 73	87 74		87 73	86 74	88 73	85 72	88 75	88 74		86 72	87 72	87 72	87 71	87 72	86 72	87 72	86 71	86 72	86 71	88 69	87 70	87 72	86.8 72.3	
B Y U LAIE 903.1	MAX MIN	87 74	87 74	86 74	87 75	86 72	87 73	86 74	86 73	87 73	87 74	87 74	86 74	85 73	87 76	86 72	85 71	86 72	86 76	87 73	86 73	87 74	86 73	86 72	86 72	85 75	86 74	86 73	85 72	86 73	86 74	86.2 73.4	
HONOLULU OBSERV 702.2	MAX MIN	92 74	90 74	89 71	91 68	89 71	90 70	91 72	90 68	90 68	90 72	90 68	90 72	89 73	90 71	91 73	88 71	88 73	90 71	90 73	89 69	89 69	89 69	89 68	89 67	88 65	89 67	89 67	87 67	91 73	87 69	89.5 70.1	
HONOLULU WSO 703 AP	MAX MIN	88 73	88 75	90 73	88 73	87 73	90 71	88 74	88 73	89 73	89 74	89 73	86 74	90 73	87 73	88 74	88 73	90 73	89 73	88 72	89 72	89 72	87 72	88 72	87 70	88 72	87 72	87 72	89 70	86 75	88 72	88.2 72.7	
KANEHE MAUKA 781	MAX MIN	83 74	81 72	82 75	83 73	82 71	80 72	84 74	82 73	82 73	83 74	82 73	83 73	80 74	81 73	81 74	79 70	79 69	79 72	82 74	82 73	81 73	81 74	81 74	82 74	81 74	81 73	82 72	85 73	80 72	83 74	82 74	81.8 73.0
MANDA LYON ARBORETUM	MAX MIN	83 71	77 70	79 70	78 68	78 68	78 69	81 69	78 70	84 69	82 68	83 68	81 69	77 69	81 70	77 69	77 69	83 69	80 69	78 68	83 68	80 67	83 67	83 67	83 69	82 69	82 69	83 69	82 69	81 69	78 68	80.2 69.2	
OPAEULA 870	MAX MIN	84 71	80 72	81 72	80 69	80 69	82 71	82 80	80 71	81 68	82 68	82 68	80 69	75 71	79 69	80 69	82 69	81 69	81 69	81 69	79 67	78 67	79 67	79 67	81 67	81 67	80 67	79 67	80 67	83 67	82 67	80.4 69.0	
WAIALEE 896.3	MAX MIN	84 72	86 74	84 73	83 73	84 70	84 72	85 73	83 71	84 73	85 74	84 73	84 73	84 75	84 73	84 74	84 75	84 74	82 73	82 71	82 72	84 75	84 72	84 72	82 72	82 72	82 73	82 72	82 72	84 69	85 72	84 71	83.9 72.3
WAIALUA 847	MAX MIN	89 72	84 72	86 66	84 66	84 70	87 66	89 69	87 67	84 66	84 66	86 73	87 70	86 69	87 69	84 68	84 66	86 64	86 68	86 68	87 66	87 67	84 64	84 64	84 64	84 65	87 65	87 65	87 64	89 64	84 68	86.0 67.1	
WAIKIKI 717.2	MAX MIN	90 75	89 76	89 74	90 71	89 73	89 73	90 75	90 73	90 72	90 76	89 73	90 74	89 74	90 75	88 74	87 76	87 75	87 75	89 75	87 73	87 74	88 74	88 73	88 72	88 70	87 70	87 69	89 69	90 73	88 74	88.7 73.3	
ISLAND OF MOLOKAI																																	
MOLOKAI AP 524	MAX MIN	88 73	88 74	88 72	88 72	88 70	89 69	90 72	90 71	89 72	90 73	90 70	90 71	86 73	88 71	89 68	88 73	88 73	90 73	89 73	89 73	88 73	89 73	89 73	88 72		88 69	89 69	90 67	90 71	87 72	88.7 71.4	
ISLAND OF LANAI																																	
LANAI AIRPORT 656	MAX MIN																																
LANAI CITY 672	MAX MIN	77 69	78 69	77 69	78 64	77 67	79 67	78 69	79 68	80 65	78 66	80 66	80 68	79 68	78 66	79 65	77 66	78 66	79 68	78 66	79 68	78 68	77 68	77 67	76 67	79 67	80 66	77 64	81 65	78 66	78 63	78.3 66.7	
ISLAND OF MAUI																																	
HOLEAKALA R S 338	MAX MIN	69 51	68 51	66 51	65 43	63 42	65 45	71 51	72 43	66 46	66 44	67 45	68 48	63 48	65 46	64 54	69 52	68 43	66 42	61 49	63 49	63 45	63 44	63 44	66 43	61 40	66 42	66 43	65 44	70 50	72 51	66.0 46.5	
HANA AIRPORT 355	MAX MIN	86 72	84 70	85 71	84 70	84 71	84 70	84 72	84 71	84 72	85 72	85 73	85 72	83 72	85 71	85 73	83 72	84 73	85 75	83 71	83 71	85 72	83 72	83 70	84 69	84 69	83 70	84 69	83 70	85 70	84 73	84.1 71.4	
KAAHAPALI AP 453.1	MAX MIN	90 75	89 73	88 71	90 70	88 71	89 71	89 72	89 70	90 72	89 74	90 72	88 72	89 72	88 73	88 72	89 72	88 73	87 72	86 72	88 73	86 72	89 72	86 72	89 70	89 72	88 66	88 68	88 69	88 68	88 69	88.7 71.4	
KAHULUI WSO 398 AP	MAX MIN	90 76	88 76	89 75	89 74	90 71	88 74	89 75	89 73	90 73	89 75	91 69	90 74	89 74	89 69	89 74	89 71	89 76	87 70	89 71	88 75	88 75	89 75	88 75	87 75	87 73	87 67	90 67	89 68	92 67	89.1 72.7		
KAILUA 446	MAX MIN	80 72	79 71	79 70	78 69	78 70	79 69	79 72	79 71	79 69	79 70	79 71	79 69	79 69	79 68	79 68	78 69	79 70	79 69	78 69	79 68	79 68	77 68	77 69	79 70	77 68	79 67	78 67	78 69	78 69	78 69	78.6 69.4	
KEAWAKAPU BEACH 260.2	MAX MIN	96 69	96 59	92 58	92 58	90 56	90 56				94 66	95 66	93 67	91 67	94 67	92 66	95 67	90 68	91 67	95 69	92 67	93 67	94 67	89 67	91 67	90 65	87 65	93 65	89 67	93 67	88 67	92.0 67.7	
KULA SANATORIUM 267	MAX MIN	79 59	77 59	76 58	75 58	73 56	74 56	75 56	76 57	75 57	77 59	75 59	76 59	77 58	72 58	76 60	77 60	76 60	75 59	77 59	76 59	76 58	74 57	75 57	75 57	76 56	74 56	72 56	75 57	74 58	72 58	75.2 57.9	
LAHAINA 361	MAX MIN	90 69	92 72	90 72	90 71	90 66	92 65	91 66	91 66	89 71	93 73	90 72	90 67	89 68	90 66	91 73	90 75	91 73	89 66	90 67	90 67	90 67	89 67										

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# DAILY TEMPERATURES

HAWAII AND PACIFIC  
SEPTEMBER 1978

STATION		DAY OF MONTH																															AVERAGE	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
HAWAII																																		
UH AGRI RES CNTR 324.5	MAX MIN	80 60	79 60	79 58	78 60	73 57	79 56	77 62	79 59	79 58	79 61	79 58	78 59	79 58	79 59	78 59	79 59	79 62	78 61	78 59	78 59	73 60	74 59	77 59	74 57	74 57	77 58	77 58	72 57	75 59	74 58		77.1 58.9	
* * *																																		
ISLAND OF HAWAII																																		
HAWAII VOLCNS NP HO 54	MAX MIN	71 57	68 56	71 59	71 55	73 57	72 52	75 58	72 57	71 55	73 57	71 54	74 56	68 55	68 54	72 55	71 55	73 59	71 57	70 57	70 55	70 54	70 55	70 55	69 55	70 54	71 53	71 52	73 55	72 55	71 55		71.1 55.4	
HILO WSO AP 87	MAX MIN	84 72	83 70	83 67	82 70	83 69	83 66	82 71	82 70	84 69	83 71	85 67	82 69	83 70	84 68	84 68	85 68	85 73	83 71	83 70	83 69	84 67	84 69	83 69	81 70	83 69	83 67	83 70	84 69	84 67		83.2 69.1		
KAINALIU 73-2	MAX MIN	82 63	79 64	78 62	80 61	80 60	77 63	78 61	81 61	80 61	81 59	82 61	80 60	81 60	79 60	81 60	82 61	81 59	80 64	81 62	79 60	78 60	78 60	80 61	80 60	76 59	78 61	78 60	79 63	80 59	78 62	79 60		79.6 61.0
KAMUELA 192-2	MAX MIN	74 63			74 61	78 60	76 63	76 62	74 63	74 63	72 57	74 57	73 63	74 63	74 63	74 55	73 58	73 58	74 58	75 62	76 62	75 62	75 64	76 62	73 62	75 63	75 63	76 63	78 63	75 62		74.7 60.9		
KAPOHO BEACH 93-11	MAX MIN	87 72	86 68	84 68	86 68	86 69	86 69	88 72	88 70	88 70	89 70	89 70	89 70	85 69	85 70	87 70	87 69	87 70	88 70	87 70	86 69	85 70	85 69	85 69	86 68	87 69	89 70	88 71	90 69	87 69		86.9 69.5		
KONA (KAILUA) 68-3	MAX MIN	87 74			88 72	86 73	87 71	85 73			88 72	87 73	86 72	86 72	87 72	87 72		87 72	86 72	86 69	85 69	85 72		87 70	86 72	86 74	86 73	85 73						
KULANI CAMP 79	MAX MIN	72 51	64 51	64 56	65 51	64 52	67 56	70 57	70 58	71 59	68 58	68 58	68 58	68 58	67 55	66 55	65 58	67 58	67 58	65 54	64 50	64 52		64 50	67 55	66 50	66 55	65 55	66 51	66 54	69		66.7	
MAUNA KEA 085 111-2	MAX MIN																																	
MAUNA LOA SLOPE 085	MAX MIN	58 36	53 36	50 35	50 35	59 35	60 39	59 35	54 36	54 38	54 37	50 33	53 34	51 35	50 33	60 38	57 41	55 38	54 35	53 32	51 34	51 34	50 34	51 36	53 39	51 38	56 38	60 42	60 42	60 44	59 41		54.5 36.8	
MOUNTAIN VIEW 91	MAX MIN	78 65	76 64	71 61	80 63	77 62	79 61	79 61	80 65	79 62	80 63	80 61	80 62	74 63	77 63	79 63	80 62	81 66	79 64	81 65	78 61	78 61	79 65	78 66	79 62	76 63	78 63	80 64	81 66	79 63	79 61		78.5 62.6	
NAALEHU 14	MAX MIN	82 64	79 63	79 63	79 66	82 65	81 64	82 65	80 65	80 60	78 67	83 62	83 67	81 66	83 68	83 68	80 68	81 67	84 68	83 68	83 67	81 69	83 68	78 66	79 62	84 63	83 63	82 64	82 66	82 67	78 66		81.3 65.5	
OOKALA 223	MAX MIN	83 69	80 69	80 68	80 68	80 70	80 70	82 68	82 69	82 70	81 66	80 72	81 70	82 68	80 68	80 71	83 72	82 71	83 70	81 69	82 69	81 69	81 69	80 70	81 64	80 69	80 68	80 68	82 69	81 70	82 70		81.1 69.1	
OPIHIHALE 2 24-1	MAX MIN	80 67	79 66	84 64	80 63	79 64	80 62	81 65	81 61	80 61	83 63	82 63	82 65	79 61	83 62	84 64	84 62	81 65	80 65	80 64	81 63	82 64	78 65	79 63	79 64	78 62	82 65	80 65	78 64	79 64	80 62		80.6 63.6	
PUUKOHOLA HEIAU 98-1	MAX MIN	94 75	92 72	93 71	93 69	91 69	92 70	93 72	94 71	93 70	92 70	93 70	91 69	95 69	92 70	91 70	92 70	92 68	92 68	93 69	92 69	93 71	92 71	92 68	90 68	91 69	91 67	90 62	90 69	87 69		91.9 69.7		
SOUTH KONA 2-31	MAX MIN	79 59	78 63	73 58	79 58	81 61	78 60	81 63	79 63	78 59	76 64	79 61	83 59	81 60	76 58	82 59	78 61	80 63	81 61	76 64	76 61	76 60	79 61	80 61	76 59	75 58	75 55	80 61	77 60	81 60	81 63		78.7 60.4	
UPOLU POINT USCG 159-2	MAX MIN	87 75	86 72	86 72	87 71	86 70	87 72	86 71	86 70	87 72	86 71	86 70	88 73	86 71	85 70	85 71	87 69	87 69	87 68	85 70	87 69	86 72	86 74	86 76	86 76	87 70	86 69	87 68	87 67	85 70	71		86.3 71.0	

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# DAILY TEMPERATURES

HAWAII AND PACIFIC  
SEPTEMBER 1978

STATION		DAY OF MONTH																															AVERAGE
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
PACIFIC																																	
■ ■ ■																																	
EAST OF 180TH MERIDIAN																																	
CANTON ISLAND	MAX MIN	89 75	89 80		90 78	88 75	89 76	87 78	88 73		89 78	89 78	90 71	89 79	90 77	90 78		89 78	89 76	90 73	89 72	89 77	89 75		89 76	89 75	90 77	89 79	89 74	89 74		89.1 76.2	
JOHNSTON IS WSO AP	MAX MIN	85 81	85 79	85 80	84 78	84 80	85 79	85 78	85 80	85 80	84 79	83 78	84 79	85 80	85 78	84 77	84 80	85 80	84 79	81 74	84 78	85 80	84 75	80 74	84 76	84 80	85 78	83 78	84 78	85 79		84.2 78.6	
FRENCH FRIGATE SHOALS	MAX MIN	86 72	86 72	86 72	84 75	87 73	88 71	88 74	88 73	85 71	84 73	85 71	87 72	85 69	87 68	85 68	90 70	81 71	87 71	85 66	84 72	87 71	84 70	88 70	87 71	85 69	86 73	88 69	88 67	88 67		86.1 70.7	
MIDWAY SAND ISLAND	MAX MIN	86 74	85 73	86 78	87 74	87 76	87 75	85 73	84 75	86 77	87 76	88 77	87 76	87 79	87 79	87 80	82 70	85 73	86 77	86 74	85 73	87 79	88 78	88 76	86 76	89 75	85 75	86 75	87 74	81 73		86.2 75.6	
PAGO PAGO WSO AP	MAX MIN	81 74	85 74	85 78	86 79	84 74	82 74	81 74	79 74	81 74	82 75	81 77	84 74	87 73	85 71	81 74	84 76	85 71	84 67	84 67	85 78	86 77	86 79	86 76	87 76	87 72	87 74	88 79	87 75	85 77		84.3 74.7	
■ ■ ■																																	
WESTERN PACIFIC ISL. NORTH OF 12 N																																	
ANDERSEN AFB GUAM	MAX MIN	84 78	85 76	84 76	81 77	83 77	83 77	84 78	85 78	86 80	84 77	85 78	85 77	86 77	86 77	84 78	85 76	85 78	85 75	84 75	85 80	84 75	84 79	84 74	86 77	82 73	84 75	84 75	87 73	87 75		84.4 73.6	
CLARK AFB LUZON	MAX MIN	88 75	88 75	84 75	82 75	82 70	86 72	84 73	84 73	84 73	81 73	86 72	88 72	84 73	88 73	81 77	82 75	79 73	82 73	88 72	88 75	88 75	82 75	81 73	88 73	88 75	90 75	79 72	81 73	84 75	82 75		84.4 73.6
GUAM NAS	MAX MIN																																
GUAM WSMO	MAX MIN	86 75	88 73	86 70	83 72	86 74	84 75	87 72	86 71	87 75	86 75	87 73	88 75	88 75	86 73	87 72	86 75	86 73	85 71	85 69	86 74	87 77	87 76	86 72	88 74	84 71	86 72	86 72	87 71	87 72		86.3 73.1	
INARAJAN - NASA	MAX MIN	89 73	89 73	89 74	88 73	88 74	86 71	86 75	87 74	88 73	86 74	88 71	87 75	88 76	88 72	88 73	89 76	88 77	88 75	89 75	89 77	88 76	88 76	90 78	90 76	90 72	87 71	88 71	88 71	88 71		88.2 73.8	
SAIPAN LORAN	MAX MIN																																
WAKE ISLAND WSO AP	MAX MIN	90 80	90 82	86 75	89 76	91 80	91 81	91 77	87 75	87 75	89 81	91 81	91 81	90 78	82 74	91 80	90 78	89 80	90 81	91 79	91 80	92 79	91 80	90 78	91 82	85 76	90 76	89 77	90 80	90 80	89 77		89.5 78.6
■ ■ ■																																	
CAROLINE AND MARSHALL ISLANDS																																	
ENWETAK	MAX MIN																																
FALALOP I ULITHI ATOLL	MAX MIN																																
KAPINGAMARANGI ATOLL	MAX MIN																																
KOROR WSO	MAX MIN	88 76	85 75	87 75	87 77	88 77	88 74	87 74	89 75	88 75	81 74	88 75	89 77	86 75	82 72	88 77	89 75	84 72	86 74	87 72	88 72	89 76	90 76	86 75	89 76	88 70	89 75	84 74	88 76	84 75		87.0 74.8	
KWAJALEIN MISSILE RGN	MAX MIN	89 80	88 78	88 79	84 74	88 76	88 80	88 76	89 78	89 79	88 76	87 76	89 80	88 80	88 75	88 78	89 75	88 79	89 80	88 77	87 75	87 75	85 72	88 75	87 76	88 80	88 79	89 77	89 78	89 81	89 80		87.7 77.5
LELE I KOSRAE	MAX MIN																																
MAJURO WSO AP	MAX MIN	88 77	88 75	87 75	87 73	87 76	87 76	88 79	89 80	82 75	87 74	88 75	88 78	88 75	83 75	89 77	87 78	86 74	88 75	84 77	86 80	87 76	87 76	87 75	88 74	88 76	85 76	88 75	88 76	88 79		87.0 76.1	
METALANIM	MAX MIN				88 73	88 74	89 73	89 74	88 72	89 72	89 71	88 74	86 72	87 73	86 73	86 75	88 72	87 73	86 71	86 71	88 72	86 73	87 74	88 75	88 74	89 70	86 72	86 73	88 74	88 75	89 73		87.4 72.9
PONAPE WSO	MAX MIN	91 72	90 70	91 72	89 71	90 72	89 72	88 72	90 72	91 73	91 74	88 73	88 72	86 76	86 73	86 73	91 71	92 68	88 70	89 73	90 71	86 72	91 72	87 72	87 72	90 72	90 72	89 73	90 74	92 74	91 72		89.6 72.2
SATAWAN ATOLL	MAX MIN																																
TRUK MOEN I WSO AP	MAX MIN	89 74	88 76	90 75	88 74	88 74	90 75	89 73	84 74	89 74	90 77	87 76	91 76	91 77	91 76	88 73	89 75	88 75	88 74	89 75	90 76	89 76	88 77	90 75	84 75	90 75	89 76	91 74	89 75	89 76	86 75		88.7 75.1
WOLEAI ATOLL	MAX MIN	91 72	91 70	90 72	88 69	89 70	89 76	89 75	92 70	90 71	89 70	89 74	90 71	88 71	90 70	88 71	90 75	90 70	87 74	88 75	85 69	85 69	87 68	87 77	89 74	90 77	90 74	89 72	89 77	85 69	85 68		88.8 72.0
YAP WSO AP	MAX MIN	82 75	88 74	88 72	87 72	88 71	84 74	89 73	89 75	88 72	89 72	89 73	88 75	83 73	88 74	89 74	82 70	89 73	86 72	85 74	88 74	89 72	88 73	89 74	88 72	86 75	83 74	87 72	89 75	88 75		87.1 73.2	

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# EVAPORATION AND WIND

HAWAII AND PACIFIC  
SEPTEMBER 1978

STATION		DAY OF MONTH																															TOTAL OR AVG.	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
HAWAII * * * ISLAND OF KAUAI																																		
LIMUE WSO AP 1020-1		EVAP	.38	.33	.35	.33	.37	.31	.33	.06	.31	.27	.39	.39	.38	.31	.23	.34	.41	.37	.35	.38	.37	.34	.35	.31	.33	.34	.30	.29	.40	.39	10.01	
		WIND	206	194	160	164	177	155	179	194	180	176	153	206	208	202	231	252	219	199	228	264	226	210	111	180	153	200	109	109	141	201	55.7	
		MAX	85	86	87	87	86	83	88	86	87	85	86	87	85	85	87	86	85	83	85	85	85	85	85	86	86	85	86	87	86	85	85.7	
		MIN	68	66	67	66	66	65	67	65	65	68	67	67	67	66	66	67	67	68	67	66	67	67	66	66	66	66	67	63	63	63	67	66.2
* * * ISLAND OF OAHU																																		
HONOLULU OBSERV 702-2		EVAP	.45	.45	.45	.60	.43	.39	.45	.45	.52	.45	.52	.52	.40	.45	.45	.50	.34	.30	.38	.35	.37	.37	.37	.37	.30	.45	.38	.45	.45	.30	12.72	
		WIND	44	36	32	29	29	26	32	31	26	28	27	33	29	30	40	45	33	29	30	35	29	23	24	23	20	23	23	34	23	20	8.66	
		MAX	92	91	90	93	91	89	92	95	93	92	91	91	90	95	90	92	89	89	92	91	92	91	91	91	86	91	90	90	92	86	90.9	
		MIN	71	69	68	68	69	69	70	68	68	69	69	70	70	71	69	71	71	70	69	68	68	69	68	67	65	66	67	67	68	67	68.6	

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# EVAPORATION AND WIND

HAWAII AND PACIFIC  
SEPTEMBER 1978

STATION		DAY OF MONTH																															TOTAL OR AVG.
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
PACIFIC																																	
■ ■ ■ EAST OF 180TH MERIDIAN																																	
JOHNSTON 15 W50 AP	EVAP	.50	.35	.41	.35	.45	.34	.32	.47	.23	.37	.35	.34	-	.40	.34	.21	.37	.34	.33	-	-	.58	.29	.25	.22	.34	.29	.27	.31	.30	10.368	
	WIND	214	239	182	210	204	182	187	207	208	170	150	215	207	199	181	208	205	190	211	170	243	146	160	166	216	202	181	161	160	200	5774	
PAGO PAGO W50 AP	EVAP	-	.17	.29	.20	.19	.32	.13	.18	.30	.29	.19	.17	.12	.20	.07	.25	.22	.21	.24	.21	.31	.23	-	.45	.27	.28	.28	.24	.29	.24	7.018	
	WIND	135	119	178	166	60	73	65	202	164	187	196	162	37	54	132	94	98	29	43	133	220	245	144	109	87	100	108	132	180	141	3793	
	MAX	94	95	92	93	95	90	84	85	87	89	94	87	95	90	92	92	91	97	96	95	96	96	97	97	97	96	95	93	95	94	93.0	
	MIN	73	72	72	72	74	72	69	73	70	73	68	72	72	69	73	71	74	68	70	70	72	72	70	70	67	74	75	75	77	77	71.9	
■ ■ ■ WESTERN PACIFIC ISL. NORTH OF 12 N																																	
GUAM W50	EVAP	.22	.16	.18	.04	.23	.08	.14	.19	.20	.14	.15	.26	.23	.23	.13	.24	.20	.11	-	.20	.22	.18	.09	.20	.27	.21	.14	.20	.09	.22	5.338	
	WIND	86	52	24	17	78	74	43	45	72	59	38	21	52	53	23	40	77	45	56	36	44	50	50	27	60	63	38	28	18	37	1406	
	MAX	91	93	89	84	88	83	90	89	89	91	92	91	94	94	89	93	90	89	83	95	90	89	87	90	91	85	84	90	89	94	89.5	
	MIN	71	72	70	72	71	71	72	71	73	73	73	73	72	73	73	72	73	73	71	69	73	71	74	72	72	69	70	68	73	73	71.8	
■ ■ ■ CAROLINE AND MARSHALL ISLANDS																																	
YAP W50 AP	EVAP	.12	.10	.21	.02	.27	.13	.23	.23	.19	.19	.23	.19	.26	-	.14	.22	-	.09	.09	.08	.18	.25	.20	.22	.15	.17	.09	.16	.21	.19	5.158	
	WIND	28	34	41	34	46	41	31	26	55	41	39	30	70	116	84	45	89	36	50	48	39	50	60	66	77	43	39	78	81	62	1579	
	MAX	94	91	93	88	89	84	92	95	88	90	93	94	90	80	89	91	83	89	83	80	90	91	93	88	91	88	82	90	93	89	89.0	
	MIN	70	68	69	70	69	69	69	72	70	70	71	72	72	68	69	68	68	76	71	70	70	70	70	70	71	70	71	70	69	71	72	70.2

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STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES				OBSERVER	
								TEMP.	PRECIP.	EVAP.	SPECIAL (SEE NOTES)		
HAWAII													
ISLAND OF KAUAI													
ALEXANDER RESV 983	0140	02	KOLOA	2	21 57	159 32	1610					C	MC BRYOE SUG CO LTD
ANAHOLA 1114	A 0145	01	KAWAIIHAU	1	22 08	159 18	180		7A			C	LIHUE PLANTATION CO LTD
BRYOESWOOD STA 985	A 0240	02	KOLOA	2	21 56	159 32	720		7A				MC BRYOE SUG CO LTD
EAST LAWA 934	A 0456	02	KOLOA	2	21 55	159 30	440		7A				MC BRYOE SUG CO LTD
ELEELE 927	A 0470	02	KOLOA	2	21 54	159 35	150		6A				MC BRYOE SUG CO LTD
HALAULA 1110	A 0935	01	KAWAIIHAU	1	22 07	159 19	253		7A				LIHUE PLANTATION CO LTD
HALENANAO 1006	A 1038	02	LIHUE	2	21 58	159 26	490		8A				LIHUE PLANTATION CO LTD
HANAHANAPUNI 1055.2	1140	02	KAUAI	2	22 03	159 25	600					C	LIHUE PLANTATION CO LTD
HANAIEI TUNNEL 1053	A 1170	01	KAWAIIHAU	1	22 05	159 28	1218		MO				U S GEOLOGICAL SURVEY
HUKIPO 945	2161	03	WAIIMEA	3	21 59	159 41	800		8A				KEKAHA SUGAR CO LTD
ILILIULA INTAKE 1050	A 2222	02	LIHUE	2	22 02	159 28	1050		VAR				LIHUE PLANTATION CO LTD
INTAKE WAINIHA PC 1086A	2227	01	HANAIEI	1	22 09	159 34	690		WI				MC BRYOE SUG CO LTD
KANALOHULUHULU 1075	3099	03	WAIIMEA	3	22 08	159 40	3600	7A	7A			C	STATE DIVISION OF PARKS
KANEHA RESERVOIR 1092	A 3104	01	KAWAIIHAU	1	22 08	159 23	830		7A				LIHUE PLANTATION CO LTD
KAPAA STABLES 1104	3159	01	KAWAIIHAU	1	22 05	159 20	175					C	LIHUE PLANTATION CO LTD
KEALIA 1112	A 3982	01	KAWAIIHAU	1	22 06	159 19	9		7A				LIHUE PLANTATION CO LTD
KEKAHA 944	4272	03	WAIIMEA	3	21 58	159 43	9		8A			C	KEKAHA SUGAR CO LTD
KILAUEA 1134	A 4561	01	HANAIEI	1	22 13	159 25	320		7A			C	NICK RAPOZO
KILAUEA POINT 1133	4568	01	HANAIEI	1	22 14	159 24	180	7A	7A				MRS ELIZABETH MACIOLEK
KOLO 1033	4735	03	WAIIMEA	3	22 04	159 46	36		7A				KEKAHA SUGAR CO LTD
KOLOA 936	A 4742	02	KOLOA	2	21 55	159 28	240		8A				MC BRYOE SUG CO LTD
KOLOA LN (MAK) 940.1	4748	01	KAUAI	2	21 52	159 27	52	7A	7A				AUSCG LORAN STATION
KOLOA MAUKA 994	A 4750	02	KOLOA	2	21 57	159 29	640		7A				MC BRYOE SUG CO LTD
KUKUIULA 935	A 4950	02	KOLOA	2	21 54	159 30	100		6A				MC BRYOE SUG CO LTD
LIHUE VARIETY ST 1062	A 5560	02	LIHUE	2	22 01	159 23	380		7A			C	LIHUE PLANTATION CO LTD
LIHUE 1020	A 5575	02	LIHUE	2	21 59	159 22	207		7A				LIHUE PLANTATION CO LTD
LIHUE WSO AP 1020.1	R 5580	02	LIHUE	2	21 59	159 21	103	8A	8A	7A	J		NATL WEATHER SERVICE
MAKAWELI 965	A 5864	03	WAIIMEA	3	21 55	159 38	140		7A				OLOKELE SUGAR CO
MANA 1026	6082	03	WAIIMEA	3	22 02	159 46	20		8A				KEKAHA SUGAR CO LTD
MOHIHI UPR CROSS 1083	A 6433	01	WAIIMEA	3	22 07	159 36	3500		MIO				U S GEOLOGICAL SURVEY
MOLOAA 1145	A 6529	01	KAWAIIHAU	1	22 11	159 20	330		7A				THEODORE JAVELLANA JR
MOUNT WAIALEALE 1047	R 6565	03	WAIIMEA	2	22 04	159 30	5148		MIO				U S GEOLOGICAL SURVEY
NIU RIDGE 1035	6850	03	WAIIMEA	3	22 02	159 44	1250	6A	6A				KEKAHA SUGAR CO LTD
N WAILUA DITCH 1051	A 6888	02	LIHUE	2	22 04	159 28	1110		7A				LIHUE PLANTATION CO LTD
N WAILUA RIVER 1055	A 6893	02	LIHUE	2	22 04	159 26	650		MO				LIHUE PLANTATION CO LTD
PH WAINIHA 1115	8155	01	HANAIEI	1	22 12	159 34	101		6A			C	MC BRYOE SUG CO LTD
PRINCEVILLE RANCH 1117	8165	01	HANAIEI	1	22 13	159 29	295		9A			C	PRINCEVILLE RANCH INC
PUEHU RIDGE 1040	8205	03	WAIIMEA	3	22 01	159 42	1660		8A				KEKAHA SUGAR CO LTD
PUHI 1013	A 8217	02	LIHUE	2	21 58	159 24	329		8A				LIHUE PLANTATION CO LTD
WAIHAWA 930	A 8941	02	KOLOA	2	21 54	159 34	215		7A			C	MC BRYOE SUG CO LTD
WAIHAI LOWER 1054	8958	02	LIHUE	2	22 01	159 27	565	6A	6A				LIHUE PLANTATION CO LTD
WAIHAI UPPER 1052	8966	02	LIHUE	2	22 01	159 28	780		6A				LIHUE PLANTATION CO LTD
WAIHAWA 943	9253	03	WAIIMEA	3	21 59	159 43	10		8A				KEKAHA SUGAR CO LTD
WAILUA KAI 1065	A 9467	02	LIHUE	2	22 02	159 21	50		7A				LIHUE PLANTATION CO LTD
WAIIMEA 947	9629	03	WAIIMEA	3	21 58	159 41	20	8A	8A				KEKAHA SUGAR COMPANY
WEST LAWA 931	A 9955	02	KOLOA	2	21 54	159 31	210		6A				MC BRYOE SUG CO LTD
ISLAND OF OAHU													
AHUIMANU LOOP 839.12	0055	01	KOOLAUPOKO	1	21 26	157 51	320					C	OR DON MITCHELL
ALOHA STADIUM-HALAWA	0172	03	OAHU	3	21 23	157 56	40	8A	8A				ALOHA STADIUM
BERETANIA PUMPING STA	0211	02	HONOLULU	2	21 19	157 51	20		9A				BOARD OF WTR SUPPLY
B Y U LAIE 903.1	0240	01	KOOLAUPOKO	1	21 39	157 56	20	12M	12M				B Y U-HAWAII CAMPUS
CAMPBELL INO PK 702.5	0248	02	OAHU	3	21 19	158 07	10		8A				CHEVRON U S A INC
CAMP 84 807	0300	03	EWA	3	21 26	158 04	760					C	OEL MONTE CORPORATION
COCONUT ISLAND 840.1	0350	01	KOOLAUPOKO	1	21 26	157 47	15		8A				H INST MARINE BIOLOGY
ODWSETT HIGHLOWS 780.8	0438	02	HONOLULU	2	21 21	157 50	565					C	J L BANNING
EWA PLANTATION 741	0507	03	EWA	3	21 21	158 02	5		7A				OAHU SUGAR COMPANY
HALAWA SHAFT 771.2	0964	02	HONOLULU	2	21 23	157 54	170					C	NWS SNS AREA II PRH
HAWAII KAI CRSE 724.19	1308	02	OAHU	2	21 18	157 39	21					C	HAWAII KAI GOLF COURSE
HELEMANO INTAKE 881	1384	05	WAIALUA	5	21 33	158 00	1274					C	WAIALUA SUGAR CO INC
HOKULOA 725.2	A 1540	03	EWA	3	21 24	158 06	2260					C	WILLIAM M KIRKPATRICK
HONOLULU OBSERV 702.2	1918	03	EWA	3	21 19	158 00	5	9A	9A	9A			NATL WEATHER SERVICE
HONOLULU WSO 703 AP	1919	02	HONOLULU	2	21 20	157 55	7	MIO	MIO			C	NATL WEATHER SERVICE
KAENA POINT 841.3	2410	04	WAIALUA	4	21 34	158 15	1240		9A			J	U S AIR FORCE
KAHANA 883	A 2462	01	KOOLAULOA	1	21 31	157 54	800		WI				WAIHOLE WATER CO LTD
KAHUKU 912	A 2570	01	KOOLAULOA	1	21 42	157 59	15					C	KIULIMA HOTEL

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								TEMP.	PRECIP.	EVAP.	SPECIAL (SEE NOTES)	
ISLAND OF OAHU												
KAILUA FIRE STA 791.3	2683	01	KOOLAUPOKO	1	21 24	157 45	10				C	KAILUA FIRE STATION
KALIHI RES SITE 777	R 2960	02	HONOLULU	2	21 23	157 50	910		MIO			BOARO OF WTR SUPPLY
KANEHOE MAUKA 781	3113	01	KOOLAUPOKO	1	21 25	157 49	325	7A	7A			STATE HOSPITAL
KAPALAMA 773	A 3268	02	HONOLULU	2	21 21	157 52	614		8A			KAMEHAMEHA SCHOOLS
KAWAIHAPAI 841	A 3734	05	WAIALUA	5	21 35	158 11	40		7A			WAIALUA SUGAR CO INC
KEMOO CAMP 8 855	A 4318	05	WAIALUA	5	21 33	158 05	725		7A			WAIALUA SUGAR CO INC
KOOLAU DAM 833	A 4766	05	WAIHAWA	5	21 30	157 58	1160		8A			US ARMY SCHOFIELD BRKS
LULUKU 781.7	5655	01	KOOLAUPOKO	1	21 24	157 49	240				C	NATL WEATHER SERVICE
MAKAHA PUMP 800.2	5782	04	OAHU	4	21 29	158 12	400				C	CAPITAL INVESTMENT CO
MAKAKILO 730.1	5789	03	OAHU	3	21 21	158 06	300		6A			NEAL ADAMS
MANOA 712.1	6122	02	HONOLULU	2	21 19	157 49	220		7A			CHARLES COOKE
MANOA LYON ARBORETUM	6128	02	OAHU	2	21 20	157 48	500	8A	8A			LYON ARBORETUM
MANOA TUNNEL 2 716	R 6130	02	HONOLULU	2	21 20	157 48	650		MIO			BOARO OF WTR SUPPLY
MAUNAWILI 787.1	6222	01	KOOLAUPOKO	1	21 21	157 46	395				C	EXP STN H 5 P A
MOANALUA 770	6395	02	HONOLULU	2	21 21	157 54	20		9A			JOHN A ROXBURGH
MOUNT KAALA 844	6553	04	WAIANAE	4	21 31	158 09	4025				C	FAA
NUUANU RES 4 783	6928	02	HONOLULU	2	21 21	157 49	1048		MIO			BOARO OF WTR SUPPLY
NUUANU RESERVR 5 775	A 6933	02	HONOLULU	2	21 21	157 50	410		WI			BOARO OF WTR SUPPLY
OPAEULA 870	A 7150	05	WAIALUA	5	21 34	158 02	1060	7A			C	WAIALUA SUGAR CO INC
PAIKO OR 723.4	7540	02	HONOLULU	2	21 17	157 44	10		6P			O L GRU88
PALI GOLF COURSE 788.1	7656	01	OAHU	1	21 23	157 47	480		10A			CC DEPT PKS RECREATION
PALOLO VALLEY 718	R 7664	02	HONOLULU	2	21 20	157 46	995		MIO			BOARO OF WTR SUPPLY
PAUOA FLATS 784	R 7810	02	HONOLULU	2	21 21	157 48	1640		MIO			BOARO OF WTR SUPPLY
PEARL COUNTRY CL 760.2	7942	03	OAHU	3	21 23	157 56	120				C	PEARL COUNTRY CL8 OF HA
PUNALUU PUMP 905.2	8314	01	KOOLAULO	1	21 35	157 54	20				C	NATL WEATHER SERVICE
PUNCHBOWL CRATER 709	A 8316	02	HONOLULU	2	21 19	157 51	360		8A			NAT MEM CEMETERY
PUPUKA HEIGHTS 896.4	8342	01	WAIALUA	1	21 39	158 02	900				C	JACK N WHEELER
PUU MANAWAHUA 725.6	8500	03	OAHU	3	21 23	158 06	1690		8A			RICHARD OAVIS
TANTALUS 2 780.5	8738	02	HONOLULU	2	21 20	157 50	1325		7A			R E WHITE
UNIV OF HAWAII 713	A 8815	02	HONOLULU	2	21 18	157 49	79		8A			UNIVERSITY OF HAWAII
WAIHAWA DAM 863	8945	05	WAIHAWA	5	21 30	158 03	854				C	WAIALUA SUGAR CO INC
WAIHOLE 837	A 8964	01	KOOLAUPOKO	1	21 28	157 53	745		8A		C	WAIHOLE WATER CO LTO
WAIALAE KAHALA 715	9185	02	HONOLULU	2	21 17	157 47	40		7A			SPENCER TINKER
WAIALEE 896.3	9190	01	KOOLAULO	1	21 41	158 02	33	8A	8A			WAIALEE LIVESK RES FARM
WAIALUA 847	A 9195	05	WAIALUA	5	21 35	158 07	32	7A	7A			WAIALUA SUGAR CO INC
WAIANAE 798.2	A 9231	04	WAIANAE	4	21 27	158 11	10		7A			8EN MAYES
WAIKAWA 836	A 9261	03	EWA	3	21 28	157 56	800		MO			WAIHOLE WATER CO LTO
WAIKANE 885	A 9340	01	KOOLAUPOKO	1	21 30	157 53	760		WI			WAIHOLE WATER CO LTO
WAIKIKI 717.2	9397	02	HONOLULU	2	21 16	157 49	10	8A	8A			HONOLULU ZOO
WAILUPE VLY SCH 723.6	9500	02	HONOLULU	2	21 16	157 45	180				C	WAILUPE VALLEY SCHOOL
WAIMANALO EXP FM 795.1	9523	01	KOOLAUPOKO	1	21 20	157 43	60		7A			U H WAIMANALO EXP FARM
WAIMANALO NONOKI 795.2	9534	01	OAHU	1	21 20	157 43	120				C	WAIMANALO EXP FARM
WAIMEA 892	9593	05	WAIALUA	5	21 38	158 04	330					WAIALUA SUGAR CO INC
WAIPAHU 750	A 9738	03	EWA	3	21 23	158 01	59		8A			WAIHOLE WATER CO LTO
WILHELMINA RISE 721	R 9980	02	HONOLULU	2	21 18	157 47	1100		MIO			BOARO OF WTR SUPPLY
ISLAND OF MOLOKAI												
KALAUPAPA 563	A 2896	01	MOLOKAI	1	21 12	156 59	30		8A			KALAUPAPA SETTLEMENT
KAUNAKAKAI 536	3541	01	MOLOKAI	1	21 06	157 01	12		7A			MOLOKAI RANCH LTO
KAUNAKAKAI MAUKA 536.5	3547	01	MOLOKAI	1	21 06	157 01	70				C	MOLOKAI GENERAL HOSP
KEONELELE PENS 551	A 4394	01	MOLOKAI	1	21 12	157 12	560		VAR			MOLOKAI RANCH CO LTO
KUALAPUU 534	A 4778	01	MOLOKAI	1	21 09	157 02	825					OEL MONTE CORPORATION
MAUNALO 511	A 6190	01	MOLOKAI	1	21 08	157 13	1070				C	MOLOKAI RANCH CO LTO
MOLOKAI AP 524	6534	01	MOLOKAI	1	21 09	157 06	450	8A	8A			ALOHA AIRLINES
PUU O HOKU RANCH 542.1	8549	01	MOLOKAI	1	21 09	156 44	700				C	CHARLIE APIA (FOREMAN)
WAIKOLU 540	A 9404	01	MOLOKAI	1	21 08	156 55	3550		WI			MOLOKAI RANCH CO LTO
ISLAND OF LANAI												
KANEPUU 690	A 3130	01	LAHAINA	1	20 52	157 00	1650		WI			U S O A
KAUNALAPAU HAR80R 658	3461	01	LAHAINA	1	20 47	157 00	30		8A			OOLE COMPANY
LANAI AIRPORT 656	5275	01	LAHAINA	1	20 48	156 57	1300		8A			HAWAIIAN AIR
LANAI CITY 672	A 5286	01	LAHAINA	1	20 50	156 55	1620	7A	7A		C	OOLE COMPANY
LANAIHALE 684	A 5301	01	LAHAINA	1	20 49	156 53	3370		WI			U S O A
MAHANA 694	A 5704	01	LAHAINA	1	20 52	156 55	1430		MO			U S O A
MALAEUA 676	A 6012	01	LAHAINA	1	20 46	156 55	1150		WI			KOELE COMPANY
WAIKAEKUA 685	A 9021	01	LAHAINA	1	20 47	156 52	2000		WM			KOELE COMPANY

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								TEMP.	PRECIP.	EVAP.	SPECIAL (SEE NOTES)	
ISLAND OF MAUI												
AUWAHI 252	A 0175	02	HANA	2	20 37	156 20	2060		VAR			ULUPALAKUA RCH CO LTD
FIELO 46 474	A 0541	04	LAHAINA	4	20 59	156 38	1050				C	MAUI LAND-PINEAPPLE CO
HAELAAU 477	A 0790	04	LAHAINA	4	20 57	156 36	2980		MO			MAUI LAND-PINEAPPLE CO
HALEAKALA B E 5 434	A 0995	01	MAKAWAO	1	20 51	156 18	2100		7A			U OF H AGRIC EXP STA
HALEAKALA RANCH 432	A 0999	01	MAKAWAO	1	20 50	156 19	1850		8A			HALEAKALA RANCH CO
HOLEAKALA R 5 338	A 1004	02	MAKAWAO	2	20 46	156 15	7030	8A	8A			HALEAKALA NAT PARK
HALIIMALE 423	A 1075	01	MAKAWAO	1	20 52	156 21	1070		3A			MAUI LAND-PINEAPPLE CO
HAMAKUPOKO 485	A 1086	01	MAKAWAO	1	20 55	156 21	320		5A			HAWAIIAN COM & SUG CO
HANA 354	A 1122	01	HANA	1	20 45	155 59	120				C	HARRY HASEGAWA
HANA AIRPORT 355	A 1125	01	HANA	1	20 48	156 01	61	8A	8A			ROYAL HAWAIIAN AIRLINES
HOLUA CABIN 259.5	A 1552	02	MAKAWAO	2	20 45	156 13	6930		MO			HALEAKALA NATL PARK RGS
HONOKOHU 480	A 1882	04	LAHAINA	4	20 58	156 36	870		MO			MAUI LAND-PINEAPPLE CO
HONOKOHU 493	A 1887	04	LAHAINA	4	21 00	156 39	135		6A			MAUI LAND-PINEAPPLE CO
HONOLUA FIELD 49 494	A 1914	04	LAHAINA	4	21 01	156 38	125		MO			MAUI LAND-PINEAPPLE CO
HONOMANU GULCH 341	A 1935	01	MAKAWAO	1	20 47	156 14	6280		MO			HALEAKALA RANCH CO
KAAHAPALI AP 453.1	A 2307	04	LAHAINA	4	20 56	156 42	8	8A	8A			AMFAC PROPERTIES INC
KAHAKULOA MAUKA 482.3	A 2453	03	WAILUKU	4	20 59	156 33	650				C	EDWARD CHANG
KAHOMA INTAKE 374	A 2552	04	LAHAINA	4	20 54	156 38	2000		WI			PIONEER MILL CO LTD
KAHULUI W50 398 AP	A 2572	03	WAILUKU	3	20 54	156 26	48	MID	MID		C J	NATL WEATHER SERVICE
KAILIILI 436	A 2630	01	MAKAWAO	1	20 51	156 16	2520		MO			E MAUI IRR CO LTD
KAILUA 446	A 2679	01	MAKAWAO	1	20 54	156 13	700	7A	7A			E MAUI IRR CO LTD
KAUAULA INTAKE 375	A 3433	04	LAHAINA	4	20 53	156 38	1585		WI			PIONEER MILL CO LTD
KAUPO RANCH HOUSE 259	A 3576	02	HANA	2	20 39	156 08	1020				C	KAUPO RANCH CO
KEAHUA 410	A 3910	03	MAKAWAO	3	20 52	156 23	480		5A			HAWAIIAN COM & SUG CO
KEANAE 346	A 4091	01	HANA	1	20 50	156 10	980		MO			E MAUI IRR CO LTD
KEAWAKAPU BEACH 260.2	A 4193	02	MAKAWAO	2	20 42	156 27	20	8A	8A		C	ALLEN L CORELL
KIHEI 311	A 4489	03	WAILUKU	3	20 47	156 27	90		7A			HAWAIIAN COM & SUG CO
KIPAHULU 258	A 4634	01	HANA	1	20 39	156 04	260		7A			HANA RANCH-KIPAHULU SEC
KUKUI 380	A 4887	04	LAHAINA	4	20 54	156 35	5788		MO			MAUI LAND-PINEAPPLE CO
KULA SANATORIUM 267	A 5006	02	MAKAWAO	2	20 42	156 22	3004	7A	7A			KULA SANATORIUM
LAHAINA 361	A 5177	04	LAHAINA	4	20 53	156 41	45	7A	7A		C	PIONEER MILL CO LTD
LAUNIUPOKO INTAKE 376	A 5404	04	LAHAINA	4	20 51	156 37	1280		WI			PIONEER MILL CO LTD
LAUNIUPOKO VILLAGE 372A	A 5408	04	LAHAINA	4	20 51	156 39	220		7A			PIONEER MILL CO LTD
LUPI UPPER 442	A 5665	01	MAKAWAO	1	20 53	156 15	1240		MO			E MAUI IRR CO LTD
MAHINAHINA 466	A 5715	04	LAHAINA	4	20 57	156 40	715		7A			PIONEER MILL CO LTD
MOKUPEA 475	A 6521	04	LAHAINA	4	20 59	156 37	1290		MO			MAUI LAND-PINEAPPLE CO
NAKALELE FIELO 60 497	A 6645	04	LAHAINA	4	21 02	156 36	340		VAR			MAUI LAND-PINEAPPLE CO
OLINDA 332	A 7040	01	MAKAWAO	1	20 48	156 17	4127		VAR			E MAUI IRR CO LTD
OLOWALU 296.1	A 7059	04	LAHAINA	4	20 49	156 37	20		7A			PIONEER MILL CO LTD
PAAKEA 350	A 7194	01	HANA	1	20 49	156 07	1260		VAR		C	E MAUI IRR CO LTD
PAIA 406	A 7566	01	WAILUKU	1	20 55	156 23	170		6A			HAWAIIAN COM & SUG CO
PANILEIHULU 259.2	A 7674	02	HANA	2	20 41	156 08	3570		MO			KAUPO RANCH CO
PEAHI 488.6	A 7952	01	MAUI	1	20 54	156 17	830				C	BERNARD RUPLINGER
POHAKA BRIDGE 307.2	A 8060	03	WAILUKU	3	20 49	156 31	167		6A			WAILUKU SUGAR CO
POLIPOLI SPRINGS 267.2A	A 8070	02	MAKAWAO	2	20 41	156 20	6150		VAR			STATE DIV OF FORESTRY
PUGHOKAMOA 2 343	A 8336	01	HANA	1	20 50	156 13	2980		MO			E MAUI IRR CO LTD
PUUNENE 396	A 8543	03	WAILUKU	3	20 53	156 27	60		7A			HAWAIIAN COM & SUG CO
PUU PAKI 352	A 8553	01	HANA	1	20 46	156 03	2160				S	E MAUI IRR CO LTD
SPRECKELSVILLE 400.2	A 8688	03	WAILUKU	3	20 54	156 25	85		8A			HAWAIIAN COM & SUG CO
TWIN GATES 261.3	A 8742	03	MAKAWAO	3	20 46	156 23	1310					KAONOULU RANCH
UH AGRI RES CNTR 324.5	A 8743	02	MAUI	2	20 46	156 20	3050	12M	7A		C	UH MAUI AGRI RESCH CNTR
UKULELE 333	A 8744	01	MAKAWAO	1	20 48	156 15	5230		MO			HALEAKALA RANCH CO
UKUMEHANE 301	A 8750	04	LAHAINA	4	20 48	156 35	75		7A			PIONEER MILL CO LTD
ULUPALAKUA RANCH 250	A 8760	02	MAKAWAO	2	20 39	156 24	1900		8A		C	ULUPALAKUA RCH CO LTD
WAHIKULI 364	A 8955	04	LAHAINA	4	20 54	156 40	580		8A			PIONEER MILL CO LTD
WAIHEU CAMP 484	A 9275	03	WAILUKU	3	20 55	156 31	320		6A			WAILUKU SUGAR CO
WAIHEE VALLEY 482	A 9315	04	WAILUKU	4	20 57	156 32	300		6A			WAILUKU SUGAR CO
WAIKAMOI 449	A 9332	01	HANA	1	20 52	156 12	1200		MO			E MAUI IRR CO LTD
WAIKAMOI DAM 336	A 9335	01	MAKAWAO	1	20 49	156 14	4320				C	E MAUI IRR CO LTD
WAIKAPU 390	A 9376	03	WAILUKU	3	20 51	156 31	370		6A			WAILUKU SUGAR CO
WAILUA IKI 348	A 9460	01	HANA	1	20 48	156 09	2630				S	E MAUI IRR CO LTD
WAILUKU 386	A 9484	03	WAILUKU	3	20 54	156 30	180		7A			WAILUKU SUGAR COMPANY
WAIOPAI RANCH 256	A 9765	02	HANA	2	20 38	156 12	220		OC			HALEAKALA RANCH CO
ISLAND OF HAWAII												
AHUA UMI 75	A 0040	05	N KONA	5	19 38	155 47	5220		MO			W H GREENWELL RANCH
CITY OF REFUGE 27.4	A 0344	04	S KONA	4	19 25	155 55	15		9A			NAT HISTORICAL PARK

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								TEMP.	PRECIP.	EVAP.	SPECIAL (SEE NOTES)	
ISLAND OF HAWAII												
HAINA 214	0840	01	HAMAKUA	1	20 06	155 28	461		8A			HONOKAA SUGAR CO
HAKALAU 142	0905	02	S HILO	2	19 54	155 08	105		7A			MAUNA KEA SUGAR CO
HALEMAUMAU 52	A 1033	03	KA'U	3	19 24	155 17	3648		MO			HAWAII NAT PARK
HALEPOHAKU 111	A 1065	02	HAMAKUA	2	19 46	155 28	9220		3P			MAUNA KEA OBSERVATORY
HAWAII VOLCNS NP HO S4	1303	02	KA'U	2	19 26	155 16	3971	8A	8A	C		HA VOLCANOES NAT PK HOS
HAWI 168	A 1339	01	N KOHALA	1	20 14	155 50	580		6A	C		K L BONO
HILO COUNTRY CLUB 86.6	1487	02	HAWAII	2	19 41	155 10	1600			C		REX WILLIS II
HILO WSO AP 87	R 1492	02	S HILO	2	19 43	155 04	36	M10	M10	C	J	NATL WEATHER SERVICE
HOLUALOA 70	A 1557	04	N KONA	4	19 38	155 55	3220		MO			STATE DIV OF FORESTRY
HOLUALOA BEACH 68	A 1562	04	N KONA	4	19 37	155 59	14		7A			CAPT COOK CATTLE CO
HONAUNAU 27	1665	04	S KONA	4	19 27	155 53	1089		7A			SHIGETO L TANAKA
HONOHINA 137	1701	02	N HILO	2	19 56	155 09	300		7A			MAUNA KEA SUGAR CO INC
HONOMU MAUKA 138	1960	02	S HILO	2	19 51	155 09	1100			C		MAUNA KEA SUGAR CO
HONUAULA 71	A 2047	04	N KONA	4	19 40	155 53	6250		MO			STATE DIV OF FORESTRY
HUALALAI 72	A 2151	04	N KONA	4	19 42	155 52	8190		MO			STATE DIV OF FORESTRY
HUEHUE 92.1	A 2156	04	N KONA	4	19 45	155 59	1960		6A			HUEHUE RANCH
KAAALA IKI 12	A 2249	03	KA'U	3	19 08	155 34	1340		WI			KA'U SUGAR CO INC
KAAWALO 29	A 2327	04	SOUTH KONA	4	19 30	155 55	1340		8A			CAPT COOK INVESTMENT CO
KAHIAWAI MAUKA 3.8	2512	03	KA'U	3	19 08	155 46	4120			C		RUSSELL P SMITH
KAHUA RCH MOTRS 176.3	2600	01	HAWAII	1	20 08	155 48	3240			C		KAHUA RANCH COMPANY
KAINALIU 73.2	2751	04	N KONA	4	19 32	155 56	1500	7A	7A			KONA EXPERIMENT STA
KALAOA 69.22	2887	04	HAWAII	4	19 44	155 59	2000		8A			FLOYO W MC COY
KALAPANA 1 67.8	2894	02	S HILO	2	19 20	155 02	10		VAR			HAWAII VOLCANOES NAT PK
KAMAOKA 2 S	A 3048	03	KA'U	3	19 02	155 40	1375		WI			PARKER RANCH KA'U DIV
KAMUELA 192.2	3077	01	S KOHALA	1	20 01	155 40	2670	6A	6A			PARKER RANCH
KAPAPALA RANCH 36	A 3300	03	KA'U	3	19 17	155 27	2140		6A			GOROON CRAN
KAPOHO BEACH 93.11	3368	02	HAWAII	1	19 30	154 49	10	8A	8A			H E MC NICHOLS
KAPOHO LANDING 93.5	A 3369	02	PUNA	2	19 30	154 52	290		VAR			DEPT OF PUBLIC WORKS
KAWAINUI LOWER 193	A 3770	01	HAMAKUA	1	20 05	155 39	1080		WI			HONOKAA SUGAR CO
KEAAU 92	3872	02	PUNA	2	19 38	155 02	285		8A			PUNA SUGAR CO
KEAIIWA CAMP 22.1	3925	03	KA'U	3	19 14	155 29	1700					KA'U SUGAR CO INC
KEALAKEKUA 3 29.11	3985	04	S KONA	4	19 31	155 55	1530					W H GREENWELL RANCH
KEANAKOLU CAMP 124.2	4098	02	HAMAKUA	2	19 55	155 21	5280			C		STATE DIV OF FORESTRY
KIOLAKAA A & F 6	A 4625	03	KA'U	3	19 04	155 38	1925		MO			STATE DIV OF FORESTRY
KIPA 89.2	A 4632	02	S HILO	2	19 44	155 09	1490		WI			MAUNA KEA SUGAR CO
KOHALA MISSION 175.1	4680	01	N KOHALA	1	20 14	155 48	537		7A			K LYMAN BONO
KOIAWE LOWER 196	A 4685	01	HAMAKUA	1	20 05	155 38	720		WI			HONOKAA SUGAR CO
KONA (KAILUA) 68.3	A 4764	04	N KONA	4	19 39	156 00	30	8A	8A	C		CHEVRON USA
KONA VILLAGE 93.8	4765	04	N KONA	4	19 50	155 59	20		8A			KONA VILLAGE RESORT HTL
KUKAIIAU 222	4815	01	HAMAKUA	1	20 02	155 21	840		6A			LAUPAHOEHOE SUGAR CO
KUKUIHAELE HIC 199	4928	01	HAMAKUA	1	20 07	155 35	980		6A			HONOKAA SUGAR CO
KUKUIHAELE MILL 206	A 4938	01	HAMAKUA	1	20 08	155 34	300		6A			HONOKAA SUGAR CO
KULANI CAMP 79	5011	02	S HILO	2	19 33	155 18	5170	8A	8A			ST DEPT OF SOCIAL SER
KULANI MAUKA 76	A 5018	05	N HILO	5	19 35	155 27	8300		WI			MAUNA LOA OBSERVATORY
KULANI SCHOOL SITE 78	A 5021	02	S HILO	2	19 35	155 20	5735		WI			ST DEPT OF SOCIAL SER
LALAMILO FLO OFF 191.1	5260	01	S KOHALA	1	20 01	155 41	2615			C		STATE DEPT OF L&N RES
LANIHAU 68.2	5330	04	N KONA	4	19 40	155 58	1530		7A			KONA EXPERIMENT STATION
LAVA TREE PARK 66.1	5460	02	PUNA	2	19 29	154 54	650			C		STATE DIVISION OF PARKS
MAKAHALAU 103	5761	02	HAWAII	1	19 59	155 33	3820		6A			PARKER RANCH
MANUKA 2	A 6134	03	KA'U	3	19 07	155 50	1760		WI			STATE DIVISION OF PARKS
MAUNA KEA OBS 111.2	6183	02	HAWAII	2	19 49	155 28	13770	7P	7P			MAUNA KEA OBSERVATORY
MAUNA LOA SLOPE OBS	6198	05	HAMAKUA	5	19 32	155 35	11150	M10	M10			MAUNA LOA OBSERVATORY
MIDOLE HOLUALOA 68.1	A 6268	04	N KONA	4	19 37	155 58	500		7A			CAPT COOK CATTLE CO
MIDOLE PEN 147.1	A 6270	01	N KOHALA	1	20 06	155 50	1380		VAR			KAHUA RANCH
MOAULA 18	A 6407	03	KA'U	3	19 11	155 30	600		WI			PARKER RANCH KA'U DIV
MOUNTAIN VIEW 91	6552	02	PUNA	2	19 33	155 07	1530	6A	6A	C		PUNA SUGAR CO
NAALEHU 14	A 6588	03	KA'U	3	19 04	155 35	800	8A	8A			KA'U SUGAR CO INC
NAPOOPOO 28	A 6697	04	S KONA	4	19 28	155 55	350		7A			U H KONA EXP STATION
OOKALA 223	7131	02	N HILO	2	20 01	155 17	430	6A	6A			LAUPAHOEHOE SUGAR CO
OPIHIHALE 2 24.1	7166	04	S KONA	4	19 16	155 53	1270	7A	7A			MRS LORMA TRUMAN
ORCHIO LAND EST 91.5	A 7185	02	PUNA	2	19 34	155 00	445		VAR			BOARD OF WTR SUPPLY
PAAUHAU 217	7204	01	HAMAKUA	1	20 05	155 26	415		8A			HONOKAA SUGAR COMPANY
PAAUILO 221	7312	01	HAMAKUA	1	20 03	155 22	800		7A			LAUPAHOEHOE SUGAR CO
PAHALA 21	A 7421	03	KA'U	3	19 12	155 29	870		6A			KA'U SUGAR CO INC
PAHOA 65	7457	02	PUNA	2	19 30	154 57	670		6A			PUNA SUGAR COMPANY
PAPAIKOU 144.1	7711	02	S HILO	2	19 47	155 06	260		7A			MAUNA KEA SUGAR CO
PAPAIKOU MAUKA 140.1	7721	02	S HILO	2	19 47	155 08	1285		7A			MAUNA KEA SUGAR CO

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								TEMP.	PRECIP.	EVAP.	SPECIAL (SEE NOTES)	
ISLAND OF HAWAII												
PIIHONUA 89	A 8051	02	5 HILO	2	19 44	155 10	1730		MO			STATE DIV OF FORESTRY STATE DIV OF PARKS SUPT PUU HEIAU-NHS W H GREENWELL RANCH PUU WAAWAA RANCH CO MRS CAROLYN CARLSON U S COAST GUARD SHINICHI KANESHIRO 801SE CASCADES WA CONST
POHAKULOA 107	A 8063	02	HAMAKUA	2	19 45	155 32	6511				C	
PUUKOHOLA HEIAU 98.1	A 8422	05	HAWAII	5	20 02	155 50	140	BA	BA			
PUU LEHUA 73	A 8460	04	N KONA	4	19 34	155 49	4880		MO			
PUU WAAWAA 94.1	8555	05	N KONA	5	19 47	155 51	2520				C	
SOUTH KONA 2.31	8650	03	HAWAII	3	19 06	155 45	2650	BA	BA			
UPOLU POINT USCG 159.2	8830	01	N KOHALA	1	20 15	155 53	61	BA	2P			
WAIKAE 500 88.2	9025	02	5 HILO	2	19 40	155 08	1050		7A			
WAIKALOA-8015 CAS 95.8	9142	04	HAWAII	5	19 56	155 48	900		BA			

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								TEMP.	PRECIP.	EVAP.	SPECIAL (SEE NOTES)	
PACIFIC												
EAST OF 180TH MERIDIAN												
ATU'U	4060	03	TUTUILA		14 16S	170 41W	26S		4P			MARIST BROTHERS
CANTON ISLAND	4101	02	PHOENIX IS		2 46N	171 43W	8	9A	9A			ITT/FEDERAL ELEC CORP
FALEASAO VILLAGE	4248	03	TA'U'MAN		14 14S	169 31W	16		8A			SOLOMULI MALU'IA
JOHNSTON IS WSO AP	R 4320	01	LINE ISLANDS		16 44N	169 31W	10	M10	M10	SP	J	NATL WEATHER SERVICE
LEONE	4397	03	TUTUILA		14 21S	170 47W	20	6P	6P			CLOSED 8/31/78
FRENCH FRIGATE SHOALS	4401	07			23 52N	166 17W	6	8P	8A			U S COAST GUARD
MIDWAY SAND ISLAND	4490	07			28 13N	177 21W	10	M10	M10			U S NAVY
PAGO PAGO WSO AP	R 4690	03	AMER SAMOA		14 20S	170 43W	10	M10	M10	7P	J	NATL WEATHER SERVICE
WESTERN PACIFIC ISL. NORTH OF 12 N												
AGAT	4000	03	GUAM		13 23N	144 39E	10		8A			PUBLIC UTIL AG OF GUAM
ANDERSEN AFB GUAM	\$3 4025	03	MARIANNA IS		13 35N	144 55E	624	M10	M10			AIR WEATHER SERVICE
CLARK AFB LUZON	\$3 4100	06	PHILIPPINE I		15 11N	120 33E	475	M10	M10			U S AIR FORCE
OEDEO	4156	03	GUAM		13 31N	144 51E	350		8A			PUBLIC UTIL AG OF GUAM
GUAM NAS	4226	03	MARIANNA IS		13 29N	144 48E	254	M10	M10			U S NAVY
GUAM WSO	R 4229	03	MARIANNA IS		13 33N	144 50E	361	10A	10A	6P	J	NATL WEATHER SERVICE
INARAJAN AG STN	4275	03	GUAM		13 16N	144 45E	30		9A			AGRI EXP STN INARAJAN
INARAJAN - NASA	4278	03	GUAM		13 18N	144 44E	280	11A	11A			POWER PLANT OPERATIONS
MANGILAO	4468	03	MARIANNA IS		13 27N	144 49E	60		7A			GUAM AGRICULTURAL STA
PITI	4670	03	GUAM		13 27N	144 41E	10					DEPT OF PUBLIC SAFETY
ROTA	4800	03	MARIANNA IS		14 08N	145 09E	47		8A			OIST ADMINISTRATOR
SAIPAN LORAN	4860	03	MARIANNA IS		15 08N	145 42E	9	10A	10A			U S C G LORAN STATION
UMATAC	4885	03	GUAM		13 17N	144 40E	190		8A			GOVERNMENT OF GUAM OPS
WAKE ISLAND WSO AP	R 4901	01	WAKE ISLAND		19 17N	166 39E	12	M10	M10		J	NATL WEATHER SERVICE
YIGO	4950	03	GUAM		13 32N	144 53E	525		9A			ANIMAL QUARANTINE STN
CAROLINE AND MARSHALL ISLANDS												
ENEWETAK	4165	01	MARSHALL IS		11 21N	162 21E	10	6P	6P			M10-PACIFIC MARINE LAB
FALALOP I ULITHI ATOLL	4185	02	CAROLINE IS		10 02N	139 48E	6	M10	M10			RAPAHU 8 LINGESOH
KAPINGAMARANGI ATOLL	4325	01	PONAPE		1 05N	154 48E	10	M10	M10			ERSIN HAUET
KOROR WSO	R 4351	02	CAROLINE IS		7 20N	134 29E	94	M10	M10		J	NATL WEATHER SERVICE
KWAJALEIN MISSILE RGN	R 4375	01	MARSHALL IS		8 44N	167 44E	7	12M	12M		J	KMR WEATHER SERVICE
LELE I KOSRAE	4395	02	KOSRAE		5 20N	163 02E	7	M10	M10			JULIAN E ROBERT
MAJURO WSO AP	R 4460	02	MARSHALL IS		7 05N	171 23E	10	M10	M10		J	NATL WEATHER SERVICE
METALANIM	4482	02	PONAPE		6 51N	158 19E	30	6P	6P			REV E A SOUCIE
MOKIL ATOLL	4490	02	PONAPE		6 41N	159 47E	27		5P			ESHAM BEN
NGASANG-8ABELTHUAP	4580	01	PALAU ISLAND		7 38N	134 39E	10		8A			BETHANIA SEMINARY
PONAPE WSO	R 4751	02	CAROLINE IS		6 58N	158 13E	123	M10	M10		J	NATL WEATHER SERVICE
SATAWAN ATOLL	4814	02	CAROLINE IS		5 20N	153 44E	9	M10	M10			ANTER EKO
TRUK MOEN I WSO AP	R 4851	02	CAROLINE IS		7 28N	151 51E	5	M10	M10		J	NATL WEATHER SERVICE
WOLEAI ATOLL	4911	01	CAROLINE IS		7 23N	143 55E	7	M10	M10			HASUGULIMAR/HALEYEMAI
YAP WSO AP	R 4951	02	CAROLINE IS		9 29N	138 05E	44	M10	M10	SP	J	NATL WEATHER SERVICE
CLOSED STATIONS EAST OF 180TH MERIDIAN												
LEONE	4397	03	TUTUILA		14 21S	170 47W	20	6P	6P			CLOSED 8/31/78

SEE REFERENCE NOTES FOLLOWING STATION INDEX

# REFERENCE NOTES

HAWAII AND PACIFIC

Additional information regarding the climates of Hawaii and the Pacific Ocean may be obtained by writing to the National Climatic Center, Federal Building, Asheville, N.C. 28801, or to any Weather Service Office near you. Additional precipitation data are contained in the "HOURLY PRECIPITATION DATA HAWAII."

**DIMENSIONAL UNITS:** Unless otherwise indicated, dimensional units used in this bulletin are: Temperature in °F, precipitation and evaporation in inches and wind movement in miles. In "Supplemental Data" table directions entered in figures are tens of degrees. Resultant wind is the vector sum of wind directions and speeds divided by the number of observations.

**OBSERVATION TIME:** Data in the "Extremes" table, "Daily Precipitation" table, "Daily Temperature" table, "Evaporation and Wind" table are for the 24 hours ending at time of observation unless indicated otherwise by reference letters in the Station Index. The Station Index shows observation time in local standard time.

**EVAPORATION** is measured in the standard Weather Service-type pan of 4-foot diameter unless otherwise noted below in the "Evaporation and Wind" table. Max and Min values in the "Evaporation and Wind" table are extremes of temperature of water in pan as recorded during 24 hours ending at time of observation. Wind is the total wind movement in miles over the evaporation pan as determined by a continuous anemometer recorder located 6-8 inches above the pan.

**NORMALS** for all stations are climatological standard normals based on the period 1941-1970.

**STATION NAMES:** Hawaii state key numbers are included following station names in the several tables.

**LATE REPORTS AND CORRECTIONS** will be carried only in the June and October issues of this bulletin.

**INTERPOLATED VALUES** for monthly precipitation totals may be found in the annual issue of this publication.

**IN THE DATA TABLES THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING:**

- No record in the "Supplemental Data" table, "Daily Precipitation" table, "Evaporation and Wind" table.
- No record in the "Monthly Summarized Data" table and the "Daily Temperature" table is indicated by no entry.
- + And also on an earlier date or dates.
- ++ Highest observed one minute windspeed. This station is not equipped with an instrument to measure fastest mile data.
- \* Amount included in following measurement, time distribution unknown.
- ‡ Extreme occurred at station with incomplete data which may have been exceeded.
- A The letter "A" shown following station name in "Monthly Summarized Data" table, "Daily Precipitation" table, and "Station Index," indicates amount carried in the "Total" column is for the period from last measurement of a preceding month through the last measurement of the current month. See "Daily Precipitation" table of this and previous bulletins for dates of measurement. Where gages are read only once monthly, measurements made on the first of a month are credited to the last day of the preceding month.
- B Adjusted to a full month.
- M One or more days of record missing; if average value is entered, less than 10 days record is missing. See "Daily Temperature" table for detailed daily record.
- R Amounts from recording gage.
- T Trace, an amount too small to measure.
- V Includes total for previous month.

**IN THE STATION INDEX THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING:**

- AR Observation made after rain.
- C In Special Column of Station Index indicates Recording Rain Gage Station. Hourly precipitation values are processed for special purposes, and are published later in the "Hourly Precipitation Data" bulletin. If daily amounts are published in "Monthly Summarized Data" bulletin they are from a separate non-recording gage, except where indicated by reference 'R'. Such amounts may differ from amounts published from the recording gage in the "Hourly Precipitation Data" bulletin.
- J "Supplemental Data" table.
- MO Gage read once monthly; usually on the last day.
- OC Gage readings at periods varying from a few weeks to several months.
- S Storage precipitation station. Precipitation measurements, made at irregular intervals, are published in the annual issue of this publications, beginning with the 1977 data. Prior data are found in the "Storage-Gage Precipitation Data" Bulletin, which was discontinued with the 1976 issue.
- SS Observation time is near sunset.
- VAR Observation time is variable.
- WI Gage read weekly or irregularly only.
- WM Gage read weekly and last day of month.
- ‡ Thermometers are generally exposed in a shelter located a few feet above sod-covered ground; however, this reference indicates that the thermometers are exposed in a shelter located on the roof of a building.
- \$3 Maximum and minimum temperatures are the highest and lowest hourly readings for each day.
- ‡ ORAINAGE CODE: KAUAI: 1-NORTHERN 2-SOUTHEASTERN 3-SOUTHWESTERN OAHU: 1-WINOWARO KOOLAU 2-HONOLULU 3-SOUTH CENTRAL 4-WESTERN  
5-NORTH CENTRAL MOLOKAI: 1-(NO INTRA-ISLAND DIVISIONS) LANAI: 1-(NO INTRA-ISLAND DIVISIONS) MAUI: 1-NORTHEASTERN  
2-SOUTHERN 3-CENTRAL 4-WESTERN HAWAII: 1-NORTHERN 2-EASTERN 3-SOUTHERN 4-WESTERN 5-CENTRAL

Stations appearing in the tables with no data were either missing or received too late to be included in this issue.

The Pacific includes stations in the Trust Territory of the Pacific Islands, Territory of Guam, American Samoa, and other scattered islands and atolls.

General weather conditions in the U.S. for each month are described in the CLIMATOLOGICAL DATA NATIONAL SUMMARY and STORM DATA.

Information concerning the history of changes in locations, elevations, exposure, etc., of substations through 1957 may be found in the publication "Substation History" for this State, price 40 cents. Similar information for regular National Weather Service Offices may be found in the latest annual issue of Local Climatological Data, price 20 cents. Note minimum charge and ordering instructions below.

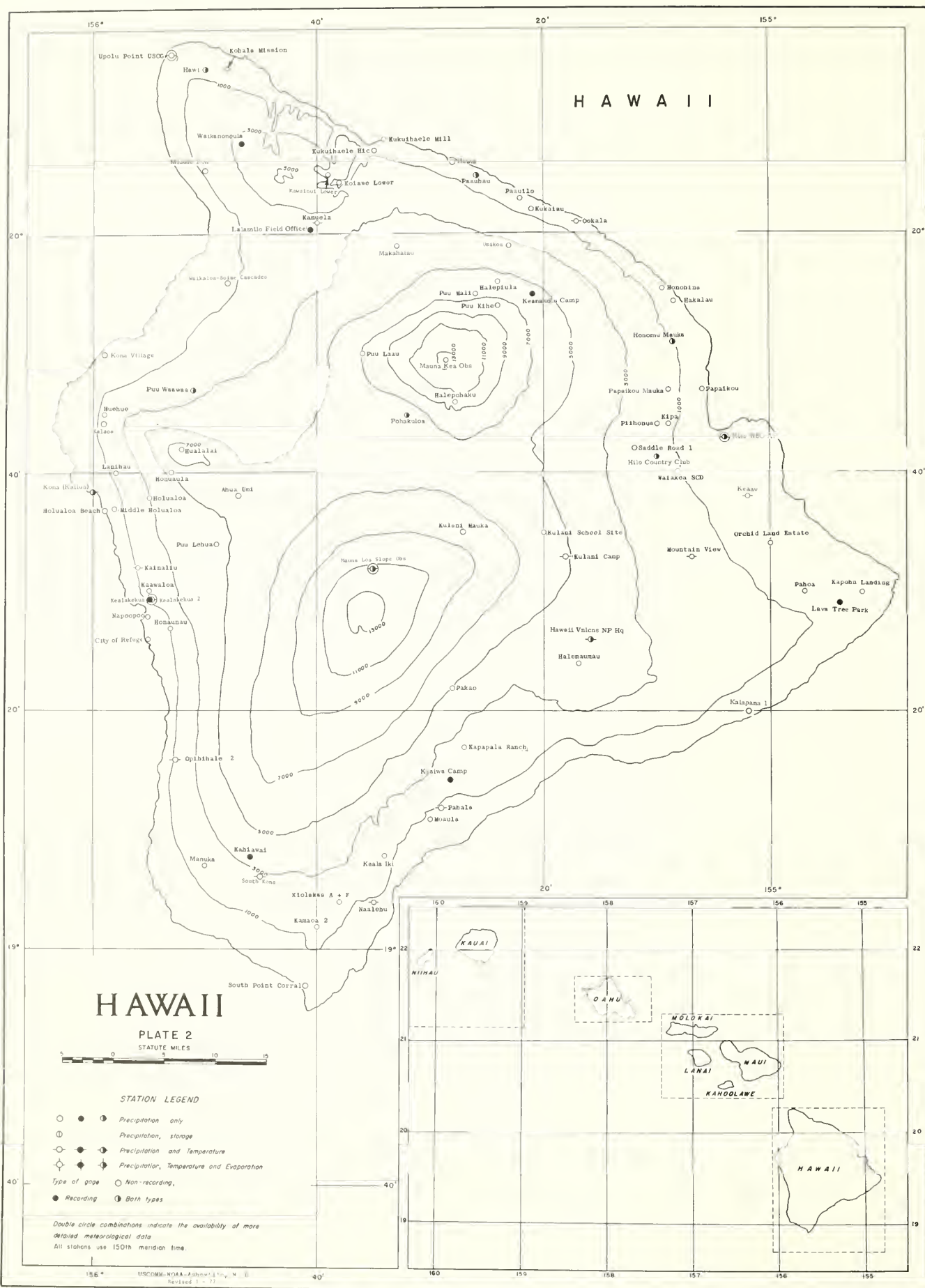
Subscription Price: \$5.10 per year for each section including annual summary; \$8.00 additional for foreign mailing; 40¢ single copy; 30¢ annual summary. There is a minimum charge of \$2.00 for each order of shelf-stocked issues of publications. Make checks payable to Department of Commerce, NOAA; send payments and orders to: National Climatic Center, Federal Building, Asheville, N.C. 28801. ATTN: Publications

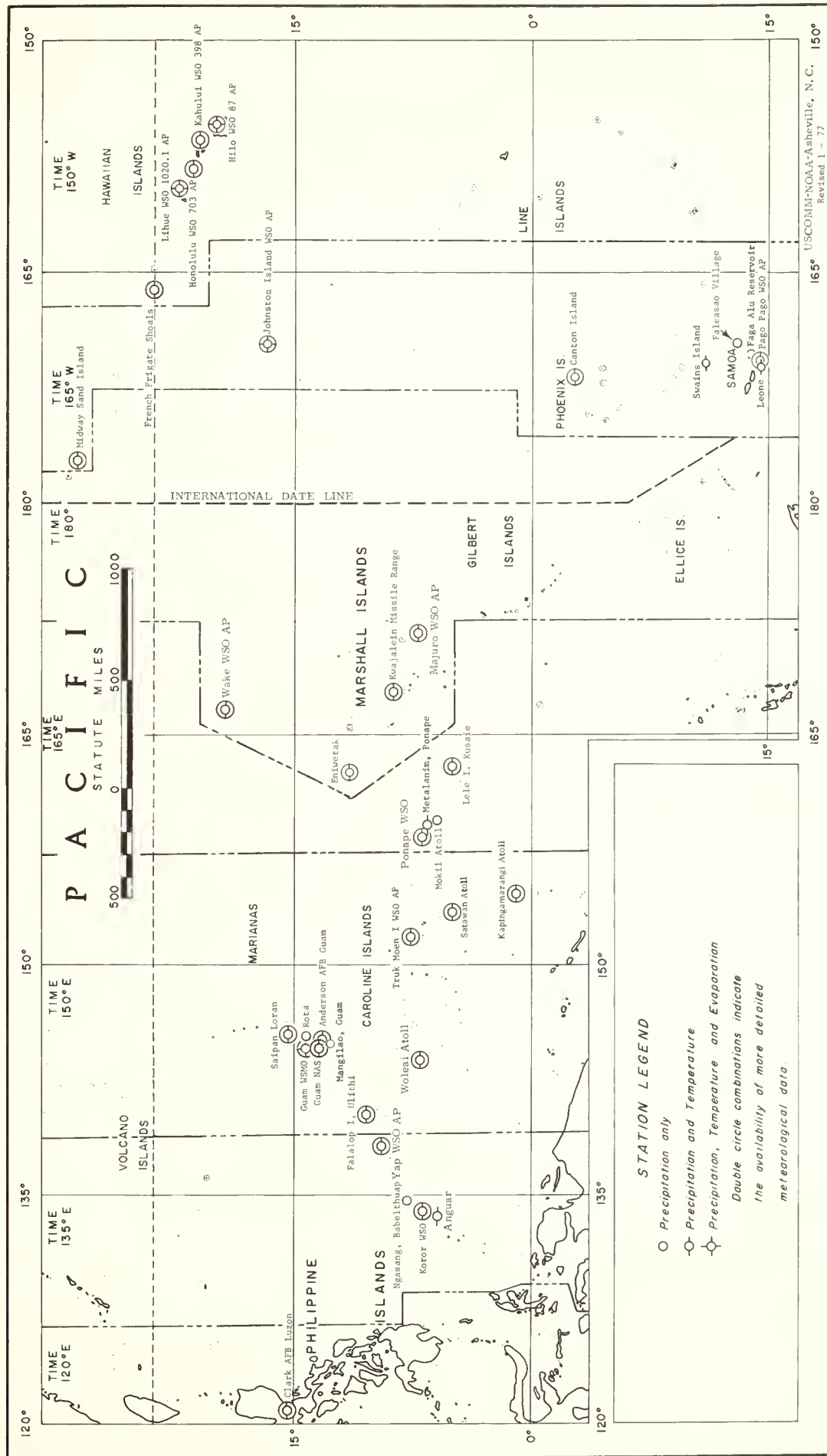
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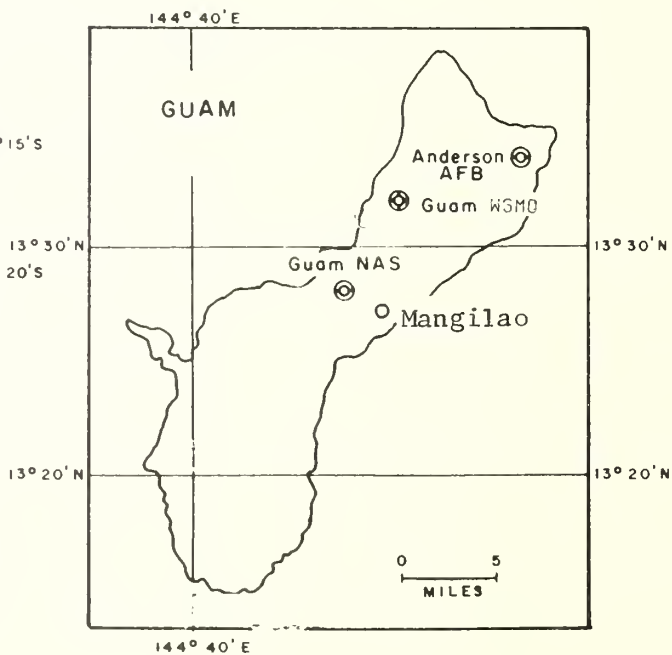
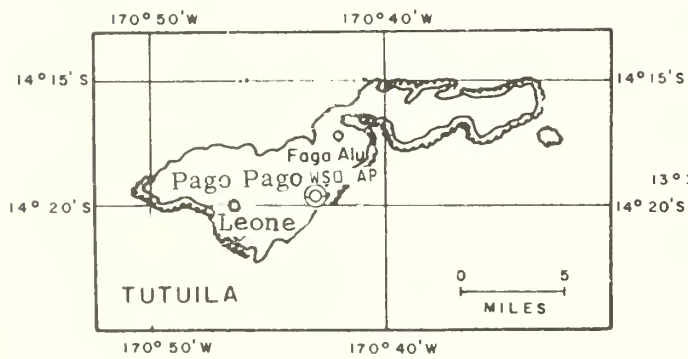
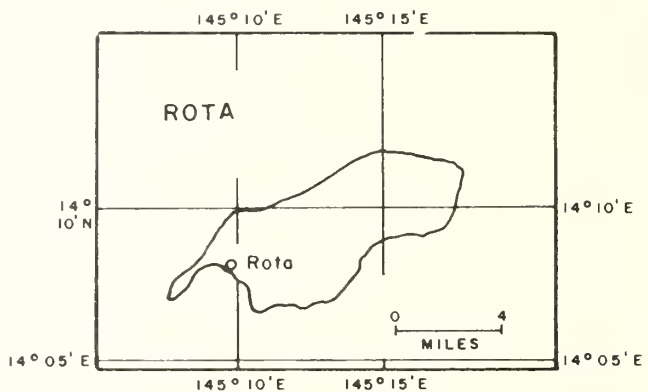
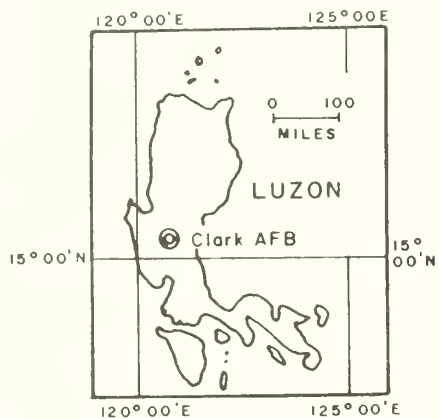
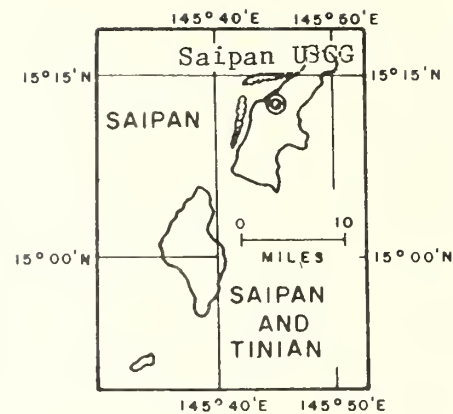
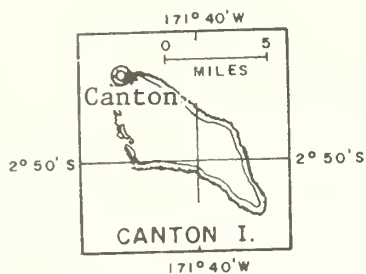




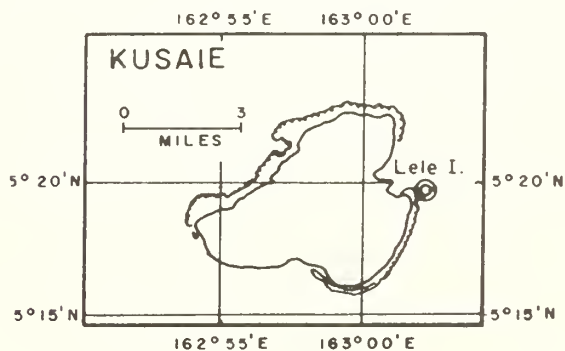
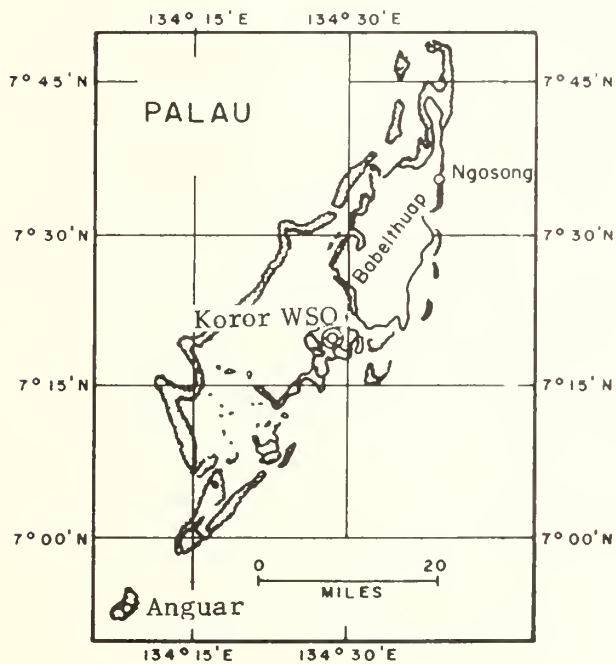
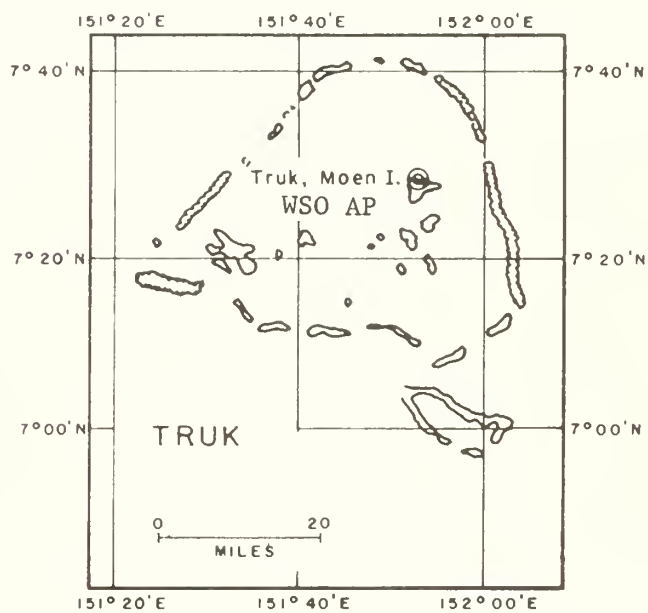
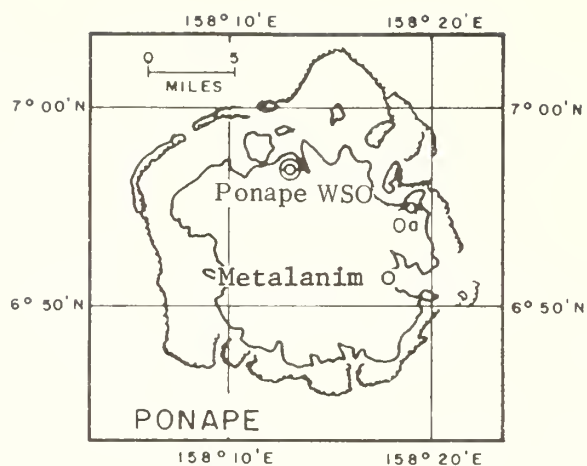
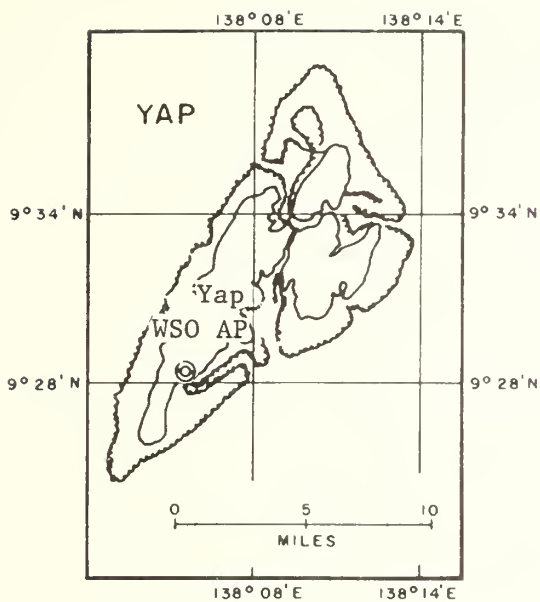




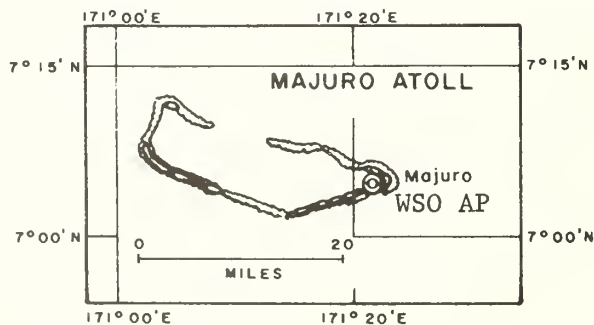
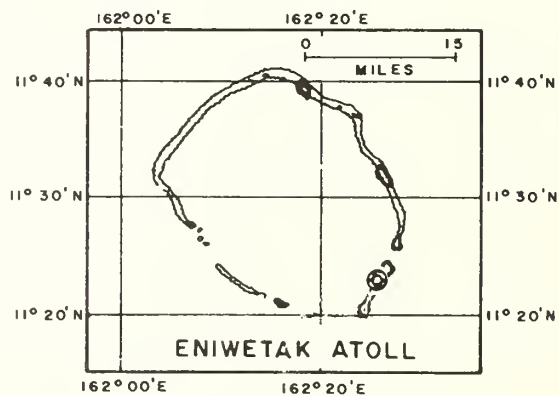
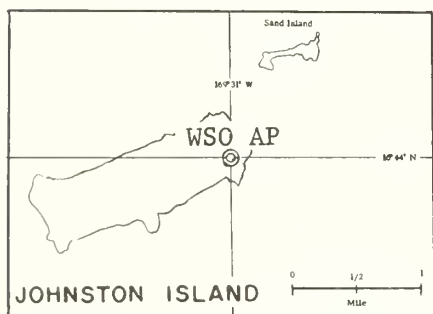
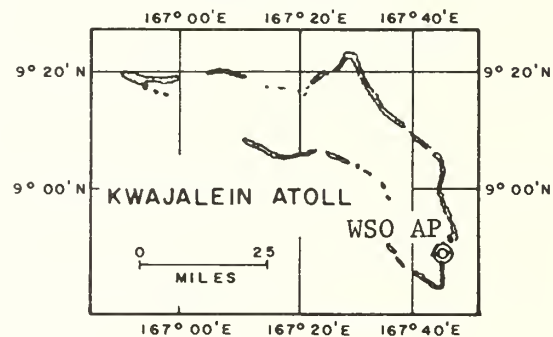
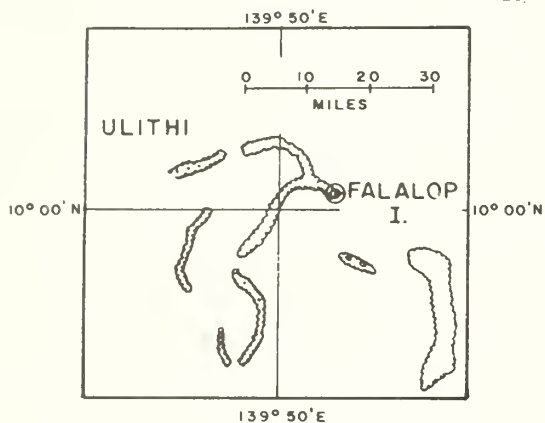
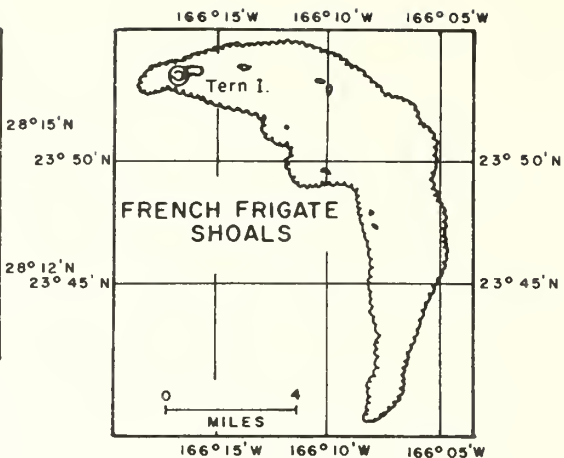
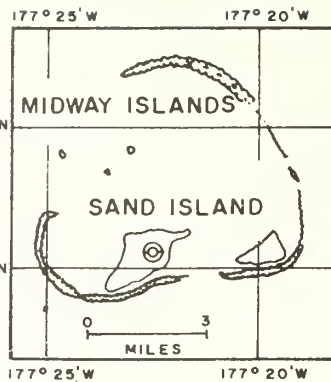
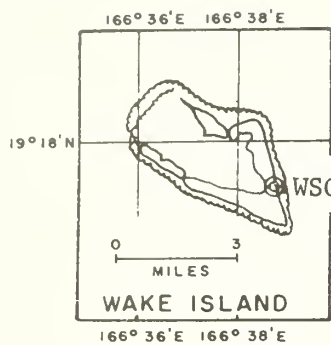




Reef



— Reef







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**THIRD CLASS**

# Climatological Data



## HAWAII AND PACIFIC

### TEMPERATURE AND PRECIPITATION EXTREMES

HAWAIIAN STATIONS ONLY

HIGHEST TEMPERATURE:	PUUKOHOLA HEIAU 98.1	HAWAII	96	DATE	04
LOWEST TEMPERATURE:	MAUNA KEA OBS 111.2	HAWAII	26	DATE	16+
GREATEST TOTAL PRECIPITATION:	WAIKAMOI 449	MAUI	24.96		
LEAST TOTAL PRECIPITATION:	HUALALAI 72	HAWAII	.05		
GREATEST 1 DAY PRECIPITATION:	KANEHE MAUKA 78.1	OAHU	13.00	DATE	31

### SUPPLEMENTAL DATA DIV.

	WIND (SPEED - M.P.H.)						RELATIVE HUMIDITY AVERAGES PERCENT				NUMBER OF DAYS WITH PRECIPITATION								PERCENT OF POSSIBLE SUNSHINE	AVERAGE (TENTHS) SKY COVER SUNRISE TO SUNSET
	RESULTANT DIRECTION	RESULTANT SPEED	AVERAGE	FASTEST MILE	DIRECTION OF FASTEST MILE	DATE OF FASTEST MILE	STANDARD OF TIME				TRACE	.01-.09	.10-.49	.50-.99	1.00-1.99	2.00 AND OVER	TOTAL			
							GREENWICH CIVIL													
							12	18	00	06										
GUAM WSMO	-	-	-	38	SE	24	-	79	80	93	0	2	18	4	1	1	26	-	8.3	
HILO WSO 87 AP	22	0.8	5.7	18	SE	31	91	83	75	88	3	9	9	7	0	1	29	39	8.3	
HONOLULU WSO 703 AP	6	6.8	10.2	29	SE	31	81	74	61	76	8	1	2	1	0	2	14	76	6.6	
JOHNSTON WSO AP	8	13.9	15.0	37	E	23	81	80	73	80	7	8	5	1	0	0	21	74	6.4	
KAHULUI WSO 398 AP	4	9.3	11.3	35	NW	30	-	78	59	75	3	5	2	2	0	0	12	57	6.9	
KOROR WSO	28	4.3	8.2	35	SW	09	87	-	81	79	2	9	6	4	4	4	29	37	9.0	
KWAJALEIN MISSILE RGN	10	4.4	8.9	28**	7	24	83	83	74	77	4	5	9	2	4	1	25	-	8.4	
LIHUE WSO 1020.1 AP	5	7.4	10.1	23	NE	31	80	77	61	75	11	6	5	0	0	2	24	55	6.5	
MAJURO WSO AP	12	2.5	7.3	23	E	28	81	84	75	78	4	7	5	4	4	3	27	54	8.8	
PAGO PAGO WSO AP	10	7.9	11.4	28	NE	14	86	85	75	82	3	14	6	2	3	1	29	13	7.7	
PONAPE WSO	-	-	-	16	E	24	95	-	76	79	2	7	11	3	4	2	29	37	8.5	
TRUK MOEN I. WSO AP	29	2.8	8.8	31	NW	09	86	-	79	78	3	10	5	4	2	4	28	17	9.4	
WAKE ISLAND WSO AP	9	18.0	19.0	47	E	31	87	87	75	82	4	13	5	1	1	0	24	60	5.9	
YAP WSO AP	24	1.8	7.1	28	SW	09	89	-	80	78	0	6	12	3	5	2	28	17	9.4	

I CERTIFY THAT THIS IS AN OFFICIAL PUBLICATION OF THE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION AND IS COMPILED FROM RECORDS ON FILE AT THE NATIONAL CLIMATIC CENTER, ASHEVILLE, NORTH CAROLINA 28801.

*Daniel B. Mitchell*

DIRECTOR  
NATIONAL CLIMATIC CENTER

**noaa**

NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION / ENVIRONMENTAL DATA AND INFORMATION SERVICE / NATIONAL CLIMATIC CENTER ASHEVILLE, N.C.

## MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

HAWAII AND PACIFIC  
OCTOBER 1978

STATION		TEMPERATURE										PRECIPITATION																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
		AVERAGE MAXIMUM	AVERAGE MINIMUM	AVERAGE	DEPARTURE FROM NORMAL	HIGHEST	DATE	LOWEST	DATE	DEGREE DAYS	NO. OF DAYS					TOTAL	DEPARTURE FROM NORMAL	GREATEST DAY	DATE	SNOW, SLEET			NO. OF DAYS																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
											100 OR MORE INCHES BELOW	32° OR BELOW	32° OR BELOW	32° OR BELOW	TOTAL					TOTAL	GREATEST DAY	DATE	TOTAL	MAX. DEPTH ON GROUND	DATE	1.00 OR MORE	.50 OR MORE	1.00 OR MORE																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
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SEE REFERENCE NOTES FOLLOWING STATION INDEX

# MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

HAWAII AND PACIFIC  
OCTOBER 1978

STATION	TEMPERATURE											PRECIPITATION											
	AVERAGE MAXIMUM	AVERAGE MINIMUM	AVERAGE	DEPARTURE FROM NORMAL	HIGHEST	DATE	LOWEST	DATE	DEGREE DAYS	NO. OF DAYS				TOTAL	DEPARTURE FROM NORMAL	GREATEST DAY	DATE	SNOW, SLEET			NO. OF DAYS		
										MAX.		MIN.						TOTAL	MAX. DEPTH ON GROUND	DATE	+10 OR MORE	+50 OR MORE	1.00 OR MORE
										30° OR ABOVE	32° OR BELOW	32° OR ABOVE	30° OR BELOW										
HAWAII																							
PUUKOHOLA HEIAU 98.1	90.5	70.1M	80.3M		96	4	59	11		19	0	0	0	.21		.10	12	.0	0		1	0	0
SOUTH KONA 2.31	78.3	60.6	69.5		83	16	57	11		0	0	0	0	1.92		1.01	17	.0	0		3	1	1
WAIKAE 500 88.2														15.44		2.55	19	.0	0		22	9	4
ISLAND			72.1											5.81				.0					

SEE REFERENCE NOTES FOLLOWING STATION INDEX



## MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

HAWAII AND PACIFIC  
OCTOBER 1978

STATION		TEMPERATURE										PRECIPITATION																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
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SEE REFERENCE NOTES FOLLOWING STATION INDEX

## DAILY PRECIPITATION

HAWAII AND PACIFIC  
OCTOBER 1978

STATION		TOTAL	DAY OF MONTH																														
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
HAWAII																																	
* * *																																	
ISLAND OF KAUAI																																	
ANAHOLA 1114	A	4.82	x	.12	.10	.06	.05	x	x	.05				.08	x	x	.12			.34	.08	x	x	.18					x	x	.93	2.80	
BOYDSEBRO STA 885	A	4.30	x	.05	.01	.01	.01	x	x	.07		.01	.01	.02	x	x				.42	.04	x	x	.01					x	x	.52	3.12	
EAST LAHAI 834	A	4.34	x	.07	.06	.05		x	x	.05			.01	.03	x	x	.14			.36	.04	x	x	.08					x	x	.40	3.04	
ELEELE 827	A	3.31												.03	x	x				.11	T	x	x	.12					x	x	.48	2.60	
HAUOLA 1110	A	5.60	x	.22		.10	.07	x	x	.17				.13	x	x	.15			.16	.05	x	x	.41					x	x	.76	3.39	
HALEMANAHO 1006	A	6.15	x	.11	.04	.08	.04	x	x	.11			.22	x	x	x	.48			.38	.23	x	x	.26	x	x	x	x	x	x	.86	3.22	
HANALEI TUNNEL 1053	A	20.80	x	x	x	x	x	x	x	x	x	x	.22	x	x	x				.08		x	x	x	x	x	x	x	x	x	.80	2.80	
HUKIPU 845	A	3.39												.38																1.04	1.88		
ILIILULA INTAKE 1050	A	8.78	x	.49	.27	.33	.62	.08	x	.05		.04	.15	.06	x	x	.87	.03	.01	1.25	.49	x	x	.11	.08	.06	.02	x	x	.34	2.42		
INTAKE WAINIHA PC 1086	A	7.78	x	.13	x	x	.35	x	x	.23	x	x		x	x	x	.18	x	x	1.35	x	x	x	2.08	x	x	x	x	x	1.00	2.47		
KAAHALOHULU 1075	A	5.05				.02			.14				.15			.22				.22		.06		.20	.05					.05	1.66	2.28	
KANEHA RESERVOIR 1092	A	9.76	x	.29	.03	.21	.31	.05	x	.37		.17	.08	x	x	.38	.02			.28	.48	x	x	.87	.18			x	x	.34	5.70		
KEALA 1112	A	4.71	x	.15		.02	.02		x	.03			.18	x	x	.24				.49	.11	x	x	.81				x	x	.46	2.80		
KEKAAHA 844	A	2.56											.08			.31				.03										1.14	1.08		
KILAUEA 1134	A	14.11	.03	.10	.12			.43		.06		.10		.41		.12				.65	.27	.56	.12						1.77	x	9.37		
KILAUEA POINT 1133	V	6.95	x	.07		.01	.03	.01	x	x	x	.05	.04	.01			.23	.05		.18	.15	x	x	.33	.02				x	1.50	2.10		
KOLO 1033	A	4.35												.20	x	x													x	2.50	1.65		
KOLUA 836	A	4.81	x	.14	.15	.09	.02	x	x	.03			.04							.65	.16	x	x	.18					x	.70	2.65		
KOLUA LN (PAK) 840.1	A	4.81	.01	.01	x	x	x	x	.04	x	x	x	x	.02	x	x	x	.01		.20	.06	x	.11	x	x	x	x	x	.02	.92	3.41		
KOLUA PUKA 894	A	6.80	x	x	.09	.05	x	x	x	x		.40	x	x	x	x	.38	.12	x	x	x	x	.72	x	x	x	x	x	x	x	5.04		
KUKUIULA 835	A	3.77	x	.07	.03	.07		x	x	.05			.01	x	x	.03				.22	.03	x	x	.02					x	.54	2.70		
LEHUE VARIETY ST 10621	A	7.28	x	.08	.22	.01	.47		x	.33		.03		.01	x	x	.34			.31	.24	x	x	.32					x	.55	4.40		
LEHUE 1020	A	6.11	x	.12				x	x	.07		.31		.01	x	x	.33	.11		.22	.04	x	x	.05					x	.59	2.94		
LEHUE WSO AP 1020.1	A	11.02	T	.04	T	T	.01	.03	T	T	.12	T	.40	T			.26	T		.01	.01		.16	T				.03	T	.23	2.10	7.62	
MAKAUAI 965	A	3.06												.01						.08										.70	2.27		
MAHA 1026	A	4.36											.40	.45	.12															1.43	1.96		
MAHIZI UPR CROSS 1083	A	8.60	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	1.10	.17	.08			.52		.08				1.22	1.06	4.35		
MAHUA 1145	A	11.04	x	.04	x	x	x	x	x	.07	x	x	x	x	x	x	21	x	x	x	x	x	.72	x					x	x	10.00		
MOUNT MALEALE 1047	A	8.38																														7.05	
MTU RIDGE 1035	A	8.38											1.06	.28																			
N WAILUA DITCH 1051	A	12.58	x	.54	.10	.22	.83	x	x	.33	.01		.02	x	x	1.50	.08			1.19	.82	x	x	.92	.10	.10			x	x	.28	5.55	
N WAILUA RIVER 1055	A	11.00	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	11.00		
PH WAINIHA 1115	A	14.88	x	.08	.01	.19	.59	x	x	.38		.22	.06	x	x	.44	.01			1.32	.02	x	x	1.02	.01				x	1.65	1.61		
PRINCEVILLE RANCH 1117	A	3.44	x	.14	.07	.14	1.04	.01	x	.28		.08	.38			.15				.48	.02		.73	.07	x	x	.53	.02		x	2.11		
PUEHI RIDGE 1040	A	3.44											.17							.16										1.16	1.80		
PUNU 1013	A	3.84			.01				x	.05		T								.14		x	x	.14					x	.80	2.60		
WAINIHA 830	A	3.41	x	.01	.01							T	.02			.11	.48	.01		.15	.01	x	x	.06					x	.53	6.22		
WAINIHI LOWER 1054	A	8.55	.05	.01	.15	.12	.54	.05	.08	.31	.08	.24		.11	.48	.01				.71	.51	.13	.36	.02	.01			.14	.04	.33	4.05		
WAINIHI UPPER 1052	A	8.08	.07	.09	.24	.28	.68	.07	.43	.03		.12		.22	.57	.02	.01			1.42	.57	.18	.42	.02	.04	.01	.01	.03		.02	.04	.34	3.01
WAINIHI 843	A	3.52										.08		.70						.03										1.04	1.67		
WAILUA KAI 1065	A	3.72	x	.06	.03	.04	.08		x	.19						.05				.07	.08	x	x	.18					x	.36	2.57		
WAIKAE 847	A	2.85											.25							.08										.94	1.58		
WEST LAHAI 931	A	3.83	x	.06	.05	.02		x	x	.03		.02	.04							.30	.02	x	x	.04					x	x	.52	2.73	
* * *																																	
ISLAND OF OAHU																																	
ALOMA STADIUM-HAWAII	A	7.28										.05								.10									x	x	.62	6.20	
BEGETANIA PUMPING STA	A	7.52								.10			T	.01						.72									x	x	6.50		
B Y U LAIE 803.1	A	8.05	T		.03	.14	.40	.05	.02	.06	.04	T	.08			.45				.03	T			.16		.01				4.12	2.03	4.12	
CAMPBELL INO PK 702.5	A	8.74																		T										.54	2.20	6.00	
COCONUT ISLAND 840.1	A	7.65			.12	.05	x	x	x	x	.30	.04	.02				.57	x	.32	.01	.01	x	x	.03		.01			x	x	.38	5.78	
EUA PLANTATION 741	A	8.50																		.03									x	x	.67	7.80	
HONOLULU OBSERV 702.2	A	7.42			T															.11										.33	7.47	2.84	
HONOLULU WSO 703 AP	R	11.15			.02			x	x	x	x	.04	x	x	x	x	.32	.04	.15		.05	x	x	.07	.04					.33	7.47	2.84	
KANEHA POINT 841.3	A	3.26															1.86	x	x	x	x	x	1.81	x	x	x	x	x	x	x	2.00	7.00	
KANEHA 883	A	11.71	.82	x	x	x	x	x	x	4.47	x	x	x	x	x	x				x	x	x							x	x	2.65		
KALAHAI RES SITE 777	A	16.88		.02	.52	.72	.04	.18	.54	.02	.26	.08		.66			.16	1.30	.18		.50	.22	.10						.44	x	10.93		
KANEHE PUKA 781	A	8.05			.20	.30			.22	.25		.27	.17	.05	.44		1.24	.96	.10	.04	.10	.12	.17						.10	.11	.18	5.00	
KAPALANA 773	A	8.48			.16			x	x	.18		.02	.17	x	x	.06	1.52	.06		.10	.04	.10	x	.12					x	1.40	5.80		
KAWAIHAPAI 841	A	7.80						x	x	.05		.01								x		x	x	.01					x	1.23	6.60		
KEMBO CAMP 8 855	A	7.45						x	x	.04						.01	.02	.14		.02	T	x	x	.17					x	1.65	5.40		
KOOLAU DAM 833	A	12.08		.05	.45	.08		.22	.42	.75	.05	.15		.02	.10		.62			.01	.02	T	.03		.20				.22	4.72	4.00		
MAKAUAI 730.1	A	8.67												.03			.01	.02	T	.03									.31	5.4	7.76		
MANOA 712.1	A	9.5																															

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HAWAII AND PACIFIC  
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STATION	TOTAL	DAY OF MONTH																														
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
HAWAII																																
WAIKAKULA 685	A	5.97	x	x	x	x	x	x	x	x	x	x	.82	x	x	.51	x	x	x	x	x	x	x	x	x	x	x	x	x	1.84	2.70	
ISLAND OF MAUI																																
AWAHU 252	A	7.53	x	x	x	x	x	x	x	x	x	x	x	x	x	x	3.79	x	1.49	x	x	x	x	x	x	x	x	x	x	2.25	x	
HALEKALU 477	A	6.80	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	1.49	x	x	x	x	x	x	x	x	6.80	x	x	2.25
HOLEKALU A E S 434	A	5.68	x	x	x	.02	.04	x	.28	.08	x	x	.18	.10	.02	x	x	.23	.18	.01	x	x	.23	.63	.01	.06	x	x	.21	.07	.71	2.33
HOLEKALU RANCH 432	A	4.62	x	x	x	x	x	x	x	x	x	x	.24	.05	x	x	.16	x	x	x	x	x	x	.65	x	x	x	x	x	1.46	2.06	
HOLEKALU A S 338	A	2.68	x	x	x	.02	.04	x	.08	.05	x	x	.20	.07	x	x	.05	.18	.31	T	x	x	.05	T	x	x	.35	.10	.13	.82	x	
HALIPILE 423	A	5.49	x	x	x	.01	x	x	.07	x	.01	.02	x	x	x	.06	x	.65	x	x	x	x	.06	.90	x	.25	x	x	x	1.16	2.30	
HAKAPAPAKA 485	A	9.30	x	.18	.04	.29	.23	.05	.05	.15	.04	.02	.31	.03	.01	T	1.83	.23	.05	.68	.18	.03	.04	.07	.50	.06	T	.01	.13	.12	.01	.36
HANA AIRPORT 355	A	13.88	.02	x	.02	.52	.51	.09	.02	.42	.22	.01	.27	.16	x	2.30	x	.43	.08	3.05	.31	.03	.26	1.27	.63	.15	.02	.20	.40	.50	.16	1.05
HOLUA CAGIN 258.5	A	2.12	x	x	x	T	x	.12	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	2.00	
HONOKOHU 480	A	21.48	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	21.48	
HONOKOHU 493	A	5.16	x	.08	x	x	x	x	x	.80	.06	.12	x	x	.12	x	.70	x	x	1.51	x	x	.20	x	x	x	.12	x	x	.45	.80	
HONOLUA FIELD 48 494	A	7.06	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	7.06	
HONOHU GULCH 341	A	10.60	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	10.60	
KANAPALI RD 453.1	A	2.05	x	x	x	T	x	.02	x	x	x	x	T	.01	x	x	.11	.01	x	x	x	.14	T	x	x	x	x	T	1.05	.01	.70	
KANOHIA INTAKE 374	A	0.64	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	0.64	
KANULUI 450 308 AP	A	1.99	x	x	x	T	x	T	x	T	.01	x	x	.15	x	.07	x	x	x	x	x	.07	.56	x	.07	.03	x	x	x	.45	.58	
KAILIJI 436	A	20.95	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	20.95	
KAILUA 446	A	228.26	x	.28	.12	1.68	.75	.26	x	x	1.54	.01	.52	.05	.48	x	.58	.01	3.20	1.64	.07	x	1.23	.43	.01	1.24	.25	x	x	1.25	4.30	
KAILUA INTAKE 375	A	1.18	x	x	x	.05	x	x	x	.03	x	.10	x	x	.10	x	x	.06	x	x	x	x	.07	x	x	x	x	x	x	x	x	
KEAHUA 410	A	4.64	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	.04	.01	x	x	.12	.32	x	x	x	.04	x	x	.01	3.97	
KEAHUA 346	A	21.16	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	21.16	
KEAHUKAPU BEACH 260.2	A	1.46	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	.09	
KIHEI 311	A	.84	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	.02	.24	x	x	x	.62	.44	1.06	.32	
KIPAHULU 258	A	8.77	x	.25	.36	.31	x	.20	x	.32	.46	x	.61	x	.71	x	.62	x	x	x	x	.52	.26	.48	.62	.44	1.06	x	.02	.21	.32	
KUKUI 380	A	13.60	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	13.60	
KULA SANATORIUM 267	A	4.72	x	x	x	x	x	x	x	x	x	x	x	.30	.15	T	.03	1.77	.14	.02	x	.03	.09	x	x	x	x	.58	.20	.13	1.36	
LAHANA 361	A	1.13	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	.83	
LAUMIUPAKO INTAKE 376	A	1.63	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	.38	
LAUMIUPAKO VILLAGE 372	A	.92	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	.62	
LUPU UPPER 442	A	20.00	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	20.00	
MAHINAHINA 466	A	2.81	x	x	x	x	x	x	x	x	.37	x	x	.07	.17	x	.55	x	x	x	x	.55	x	x	x	x	x	x	.57	x	1.18	
MAKUPA 475	A	13.20	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	13.20	
MAKALAE FIELD 60 487	A	6.90	x	.12	x	x	x	x	x	1.52	x	x	x	x	x	x	.59	x	x	x	x	x	2.57	x	x	x	x	x	x	x	1.05	x
BLINDA 332	A	3.79	x	x	x	.17	x	x	x	1.17	x	x	x	x	x	x	x	1.27	x	x	x	x	1.17	x	x	x	x	x	x	x	x	.91
BLOWALU 286.1	A	1.13	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	.91	
PAKKA 350	A	24.81	.20	.09	x	3.30	x	1.92	x	1.27	.83	.05	x	.52	x	.95	.47	4.50	1.37	.05	x	1.04	.72	x	1.00	.88	x	x	x	2.04	2.50	
PAKA 406	A	4.25	x	.05	.01	.02	.05	T	.04	x	.05	T	.12	.78	.32	T	.21	.10	T	x	x	.24	.05	x	x	x	x	x	x	x	2.50	
PANILEHU 259.2	A	12.30	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	12.30	
POWAKA BRIDGE 307.2	A	1.03	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	.57	
POLIPOLI SPRINGS 267.2	A	5.90	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	5.90	
PUNOHAKA 2 343	A	2.24	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	
PUUNENE 386	A	2.38	x	x	x	.01	x	.25	.28	.11	.07	.02	x	x	x	x	x	x	x	x	x	.05	.05	.20	x	x	x	x	x	x	x	1.10
SPECKELSVILLE 400.2	A	.25	x	x	x	.01	x	.25	.28	.11	.07	.02	x	x	x	x	x	x	x	x	x	.05	.05	.20	x	x	x	x	x	x	x	1.10
TWIN GATES 261.3	A	2.34	x	x	x	.01	x	.25	.28	.11	.07	.02	x	x	x	x	x	x	x	x	x	.05	.05	.20	x	x	x	x	x	x	x	1.10
UW AGRIC RES CNTR 324.5	A	2.34	x	x	x	.01	x	.25	.28	.11	.07	.02	x	x	x	x	x	x	x	x	x	.05	.05	.20	x	x	x	x	x	x	x	1.10
UKULELE 333	A	6.44	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	6.44	
UKUKUHAWE 301	A	5.74	x	x	x	.12	x	.04	.28	.03	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	5.74
ULUPALAKA RANCH 250	A	1.45	x	x	x	.04	.03	.02	.03	.12	.20	.57	.18	.20	.05	.27	.13	.04	.14	x	x	x	x	x	x	x	x	x	x	x	x	1.45
WAIKULU 364	A	4.70	x	x	x	.04	.03	.02	.03	.12	.20	.57	.18	.20	.05	.27	.13	.04	.14	x	x	x	x	x	x	x	x	x	x	x	x	4.70
WAIHEE VALLEY 482	A	10.05	x	x	x	.15	.04	.03	.07	.12	.05	.04	.43	2.50	1.85	.82	.15	.62	x	x	x	.43	.56	.24	x	x	x	x	x	x	x	1.85
WAKARUA 449	A	24.9.																														

# DAILY PRECIPITATION

HAWAII AND PACIFIC  
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STATION	TOTAL	DAY OF MONTH																																
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
HAWAII																																		
NAALEHU 14	A 9.84				.41	1.36		.06					.43				1.81	.03	2.65	.16	.02			.10		.05	.01	.90	.26	.09	.70	.		
NAP08P08 28	A 2.06	x	.06	x	x	x	x	x	x	x	.28	x	x	x	x	x	.02	x	x	x	x	x	x	.36	x	x	x	x	x	1.34	x	.		
08KALA 223	5.57		.17	.07	.10	.61	.01	.46	.22	.36	.10			.34		.01		.16	.22	.26	.08	.07		.95	.56	.60	.21	.01				.		
08JIMWALE 2 24.1	3.37		.03	T	.10	T	.61	T	.02	T			.03	T			T	.05	.08	.25	.10	.19		.10	.01	.19	.03	.64	.35	.35	T	23	T	.
08CHIO LAND EST 81.5	A 15.50	x	x	x	x	x	2.38	x	x	x	x	x	x	.92	x	x	x	x	x	x	10.30	x	x	x	x	x	x	2.00	x	x	x	.	.	
PAAUHAU 217	4.71		.06	.01	.04	.01		.07	.03	.08	.04		.07	.21				.57		.41				.17	1.26	.28	1.15	.25				.	.	
PAAUHAU 221	4.66		.15	.01	.01	.02	T	.32	.04	.11	.08		.07	.07				.33	.08	.17	T			.02	1.57	.43	1.11	.13	T	x	.40	.67	.	
PAHALA 21	A 6.48				.22	.23							.86	.01			1.37	.71	1.34	.28				T		.39	T	x	x	.40	.67	.		
PAHUA 65	V20.23	x	.22	.20	1.29	.88	.07	x	x	.52	.10	.06	.05		x	x	.18	2.10	1.05	2.54	.21	x	x	.76	.28	.33	.25	.15	x	x	1.09	.15	.	
PAPAIKOU 144.1	V17.87	x	.75	.26	.91	.96	.15	x	x	1.14	.01	.02		x	x		.04	.15	1.79	1.29	.28	x	x	.40	.30	.04	1.55	.16	x	x	.55	.03	.	
PAPAIKOU MAUKA 140.1	V23.68	x	.99	.25	.89	1.47	.08	x	x	2.28	.15	.01		.02	x	x	.20	.09	1.46	1.43	.78	x	x	.57	.36	.23	1.80	.35	x	x	1.00	.19	.	
PIIHONUA 89	A 15.60	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	15.60	.		
PUUKOHOLA METALU 98.1	.21	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	.08	.03	.	
PUU LEHUA 73	1.80																																1.80	.
SOUTH KONA 2.31	1.92		.14					.03									.08	1.01	.44					.06	.02		.08	.02	.04				.	
UPOLU POINT USCG 159.2	2.27	T			T	T		T			.05	T	T	T			.20	.73	.23	T	T		.05	T		T		.70	T	.06	.25	.		
WAIKAKA SCD 88.2	15.44	.08	.25	.22	.99	2.33	.12	.67	.48	.84	.12		.09			.01	.45	1.30	.86	2.55	.23	.31	.08	.02	.21	.19	1.63	.28	.23	.04	.65	.10	.	
WAIKALOA-BOIS CAS 95.8	1.48				T								.05	.01	.25		.06							.34	.03	.73						.01	.	

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# DAILY PRECIPITATION

HAWAII AND PACIFIC  
OCTOBER 1978

STATION	TOTAL	DAY OF MONTH																																		
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31				
PACIFIC																																				
* * *																																				
EAST OF 180TH																																				
MERIDIAN																																				
ATU 'U	9.51	.14	.01	.38			.15	x	.15		.34	.71	.73	1.04	1.47			.05	.38	.21				.13	1.58	.38	.28	.83	.09		.77	.07	.			
CANTON ISLAND	.62	x	.01	.20			.02	x	x										.05		T	.03	.45		1.01	2.00			.08	.66	.12		.			
FALESAO VILLAGE	24.15		.52	.42	.71	.69	.27	.61	.08	.56	1.82	2.05	2.48	3.87	2.41	1.96	.54	.71	T						1.01	2.00			.08	.66	.12		.			
JOHNSTON IS WSO AP	2.10				.03	T	.06	T	.07	T	.01			T				.02		.06	.03	.29		.13			.14	.18	.11	T	.93	.03	.			
FRENCH FRIGATE SHOALS	2.23	.01			.08									.01				.08		.05	.14		.68					.01	.63	.11		.43	.			
MIDWAY SAND ISLAND	2.15	T	.05					.09	T		1.31	.06			.15	.01				.01	.07	T					.17	.05	.07	.08			.03	.		
MALRELOA																																		.		
PAGO PAGO WSO AP	10.00	.90	T	.59	.07	.05	.08	.06	.22	.02	.43	.21	1.14	2.52	.27	.02	.02	.01	.09	.04		T		.01	1.15	.28	1.35	.03		T	.34	.07	.03	.		
* * *																																				
WESTERN PACIFIC ISL.																																				
NORTH OF 12 N																																				
AGAT																																		.		
ANDERSEN AFB GUAM	8.72	.03	.24	.05	.49	.20	.27	.22	.10	.39	.10	T	.61	.22	.27													.05	.11	.13	.24	.17	1.28	.34	.	
CLARK AFB LUZON	18.64	1.41	1.10	.11	.33	.11	.33	T	.04	2.88	1.17	2.22	.99	.54	.09	.95	T		.21	.69	.67				T	1.06	2.12		.05	.05	3.27	.15	1.11	.17	.	
DEDEO	11.84	.21	.05	.20	.55	T	.31	.27	.73	.13	.35	.91	.05	1.70	.67	.07	T	.35	T					T	.05	1.66		T	.31	.05	.62	.10		2.50	.	
GUAM NAS																																		.		
GUAM WSO	10.49	.21	.12	.16	.48	.16	.19	.35	.35	.39	2.17	.01	.79	1.07	.22	.01	.19							.18	.60	.62	.12	.26	.14	.25	.16	.91	.38	.		
INAAJAN AG STN	6.61	.21	.01	.01	.39		.18	.28	.38	.50	.39	.12	1.56	.19			.05	.01									.90	.11	.21	.01	.08	.48	.54	.		
INAAJAN - NASR	9.87	.15	.17	.03	.45	.40	1.54	.66	.29	.40	.32	.21	1.71	.20			T	T						.04	.54	.73	.44	.08	.12	.32	.18	.85	.03	.		
MANGILAO	10.52	.45	.26	.03		.51	.41	.36	.25	.21	.27	.05	1.02	.11		.27	.78		.02	T						1.99	.18	.20	.18	.35	.38	2.00	.23	.		
ROTA																																		.		
SAIPAN LORAN																																		.		
UMATAO	13.67	.10	.01	.25	.16	.02	.44	.33	.75	.50	.10	1.00	.10	1.23	.27	.10				.60	.78					.45	.89	.29	.10	.31	.45	.89	1.60	1.95	.	
WAKE ISLAND WSO AP	3.09	.06	T	.28	T	T	.03	.01	.23	.68	.02	.01		.01	.01		.16	.03		.12		.01	.04			.45	.89	.29	.10	.31	.45	.89	1.60	1.95	.	
YIGO	13.15	.54	.40	.38	.84		.10	.66	.49	.21	.51	.55	.86	.96	x	x	.48	.70																2.58	.	
* * *																																				
CAROLINE AND MARSHALL ISLANDS																																				
ENEWETAK																																		.		
FALALOP I ULITHI ATOLL																																		.		
KAPINGMARANGI ATOLL		.43	.04			.41	.96	.14	.26	.52									.50	.48									.15			.85	.80	.		
KOROR WSO	20.06	T	.06	1.22	.06	1.87	2.51	3.47	2.14	.16	.04		.62	.81	1.08		.06	.01	.10	.53	.65	.14	.28	.08	.19	T	.42	.08	1.04	2.31	.04	.08	.			
KURAEIN MISSILE RMN	11.47	1.32			.02	.03	.65	.02	.25	.41	1.30	T	1.61	.53	.21		T	.17		.11	.10	T				.08	1.55	.30	.37	.08	.12	2.03	T	.		
LELE I KOSRAE																																		.		
MAJURO WSO AP	20.56	3.48	T	T	T	.07	.55		.08	1.35	.12		3.32	3.19			.04	.88	.82	.08	.42	.03	.06	.13	1.26	1.03	.43	T	.97	1.61	.16	.05	.			
METALAMIM	15.87	2.20	.43	.28	.28	.16	.37	1.10	.30	.50	.95	.82	.47	.81	.44	.03	.01	2.50										.02	.11	1.02	.01	.04	1.01	.45	.	
NGASANG-BABELTHUAP	15.47	.50	.10	.07	1.93	.58	2.00	.99	2.00	1.24	.49	.02	.51	.52	.18	.02	.07	.04	.15	.30	.20	.76	.02	.41	.02	.16	.02	.30	.03	.52	.03	1.29	.12	.		
PONAPE WSO	16.97	1.46	1.37	.17	.36	.11	2.54	1.72	.02	.01	.18	.48	.08	1.40	.07	T	.39	.87								.06	.26	.34	.17	.03	.76	.03	.29	2.47	.44	.
SATAWAN ATOLL																																		.		
TAUK MOEN I WSO AP	21.21	.45	1.53	.02	.31	T	.59	.07	3.34	.09	4.65	.82	.04	.65	.01	.05	.03	T	1.42		.80	.03				.04	.29	T	.42	.40	.02		2.21	2.83	.	
WOLEAI ATOLL																																		.		
YAP WSO AP	18.10	.03	.14	.24	1.40	2.17	3.24	1.28	1.25	1.83	.38	.21	.91	.37	.02	.01	.24	.16		.02	.69	1.56	.19	.18	.06	.02	.32	.13	.78	.16				.		

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# DAILY TEMPERATURES

HAWAII AND PACIFIC  
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STATION		DAY OF MONTH																															AVERAGE
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
HAWAII																																	
ISLAND OF KAUAI																																	
KANALOHULU 1075	MAX MIN	74 48	74 52	75 51	74 50	71 50	74 51	75 51	72 52	75 54	71 51	69 51	69 51	72 52	75 55	67 49	70 43	74 44	72 49	73 52	70 55	69 54	65 55	64 53	63 54	72 52	74 44	70 49	70 52	61 59	63 58	64 56	70.4 51.5
KILAUEA POINT 1133	MAX MIN	88 74	81 74	86 74	85 74	84 74					87 72	86 73	87 72	92 73	94 72		71 71	87 71	86 72	84 72	85 73		86 72	80 71	80 72	85 69	86 70			89 71	73 69	87.4 73.5	
KOLOA LN (MAKI) 940-1	MAX MIN	88 74	88 75	87 72	88 71	88 76	87 75	88 75	88 75	87 75	89 75	87 75	88 75	88 75	91 75	91 76	87 73	86 72	91 77	89 72	87 74	86 73	85 75	86 73	86 70	84 71	86 71	85 71	91 74	93 72	74 69	87.4 73.5	
LIMUE WSO AP 1020-1	MAX MIN	87 74	86 73	85 68	86 75	83 75	85 74	85 74	85 74	85 74	85 73	85 73	85 73	88 70	86 70	84 69	85 66	85 67	83 67	86 70	85 72	84 72	80 69	81 72	82 72	82 68	84 65	84 66	86 73	88 73	76 70	72 68	84.0 71.5
NIU RIDGE 1035	MAX MIN	86 63	87 66	88 66	87 63	87 67		80 62	87 62	86 64	81 64	83 66		85 62	84 63	88 62	85 62					87 60	85 61	81 60	83 60	84 60							
WAIHAI LOWER 1054	MAX MIN	80 68	81 69	82 69	83 66	82 66	79 66	81 66	83 66	82 66	80 63	83 64	81 64	83 63	82 63	84 63	80 63	83 63	83 60	83 60	87 63	81 60	80 63	81 68	78 69	74 66	74 67	76 67	74 69	79 60	82 65	83 66	80.0 64.6
WAIHEA 947	MAX MIN	85 66	88 70	88 66	88 65	88 66	88 65	87 69	86 66	91 66	87 65	89 60	85 68	85 70	85 70	85 70	87 69	85 69	85 67	89 67	91 69	90 69	85 72	85 66	84 65	85 63	85 67	84 67	85 67	84 67	73 68	86.0 67.1	
ISLAND OF OAHU																																	
ALOHA STADIUM-HALAWA	MAX MIN	89 74	86 71	86 71	86 74		86 73	86 71	87 71	84 69	85 69	86 70			88 67	84 66	82 66	85 70	87 73	88 71			83 69	81 68	84 68	86 66	83 67			88 68	75 61	85.0 69.3	
B Y U LAIE 903-1	MAX MIN	87 76	86 73	87 71	86 71	84 70	85 71	86 72	86 73	85 73	86 73	85 68	85 71	85 68	85 69	82 69	83 68	83 68	84 67	85 75	85 76	86 76	83 71	81 73	82 73	83 71	83 75	82 70	84 70	85 70	84 66	84.1 71.1	
HONOLULU OBSERV 702-2	MAX MIN	87 69	90 71	90 66	89 66	89 74	85 66	89 67	88 67	89 71	88 67	88 67	85 68	85 67	86 68	88 67	85 66	85 67	87 68	90 68	87 68	86 70	87 63	86 69	87 65	89 65	88 65	86 67	85 71	85 70	73 65	86.7 67.7	
HONOLULU WSO 703 AP	MAX MIN	88 72	88 74	89 71	90 72	84 74	88 72	88 73	89 72	86 72	87 70	86 69	84 69	85 68	86 69	86 68	85 69	85 69	87 73	86 72	85 70	84 70	83 71	85 66	87 71	86 66	85 68	84 69	84 69	77 66	74 66	85.4 70.1	
KANEHE MAUKA 781	MAX MIN	83 74	82 73	82 72	82 71	78 74	78 74	81 73	82 68	79 68	81 73	83 72	82 70	84 71	85 71	85 70	85 69	85 69	85 70	83 71	81 71	80 73	81 71	78 71	81 71	78 72	83 71	84 72	83 71	74 65	81.2 71.4		
MANDY LYON ARBORETUM	MAX MIN	86 70	81 71	84 68	79 68	82 69	87 68	80 68	77 69	78 67	77 68	81 67	84 67	83 66	87 65	86 65	80 67	84 66	87 68	83 68	78 69	85 66	78 69	79 69	81 67	83 69	83 69	84 67	88 66	84 70	73 64	81.8 67.7	
OPAEULA 870	MAX MIN	87 67	84 73	81 72	80 69	82 70	77 67	82 66	81 68	81 61	81 63	80 65	82 69	82 65	84 66	80 66		82 68	83 68	80 70	81 68	79 66	83 67	80 66	76 64	79 65	81 62	80 64	87 63	82 69	70 66	81.0 66.6	
WAIALEE 896-3	MAX MIN	84 75	83 74	84 70	84 72	81 71	82 72	83 73	83 73	83 73	81 73	82 70	85 75	82 72	86 73	84 72	83 71	83 68	82 71	82 71	82 71		83 71	80 71	80 70	81 72	81 71	80 72	84 71	83 66	82.4 71.4		
WAIALUA 847	MAX MIN	88 68	84 66	87 66	87 65	86 69	83 64	84 64	84 64	85 64	86 64	86 66	83 65	84 66	82 66	80 67	85 67	84 66	87 67	88 66	84 66	87 66	86 62	87 62	86 62	83 62	84 62	86 62	83 62	86 62	72 67	84.3 64.8	
WAIKIKI 717-2	MAX MIN	91 74	87 74	88 72	88 74	87 75	86 71	89 73	88 74	88 72	89 72	89 68	90 70	87 69	87 68	88 69	85 66	88 65	88 68	87 72	87 71	87 71	88 70	85 68	85 69	86 72	87 68	86 67	89 68	86 73	87 73	82 66	87.3 70.4
ISLAND OF MOLOKAI																																	
MOLOKAI AP 524	MAX MIN	88 71	88 71	88 71	90 71	90 72	85 72	88 71	88 71	86 71	86 69	88 71	86 68	85 70	88 66	88 71	87 68	89 67	87 70	88 72	90 71	87 69	88 70	86 71	84 64	87 71	87 70	87 70	86 71	86 71	86 62	72 64	86.7 69.6
ISLAND OF LANAI																																	
LANAI AIRPORT 656	MAX MIN	81 61	82 65	82 64	81 68	79 68	81 64	80 67	81 66	83 66	81 62	81 67	77 64	82 64	81 64	81 68	81 63	80 62	79 68	82 64	81 65	81 64	82 67	82 66	78 66	81 68	83 67	83 64	85 67	85 67	80 68	75 64	81.0 65.3
LANAI CITY 672	MAX MIN	78 62	80 67	87 64	79 68	77 68	77 67	77 64	79 65	77 66	79 62	76 66	74 64	78 65		78 65	80 64	78 65	79 68	79 66	79 64	76 64	80 67	72 66	74 67	76 66	76 67	79 66	79 66	80 69	74 66	77.3 65.8	
ISLAND OF MAUI																																	
HOLEKALA R S 338	MAX MIN	75 60	72 42	63 41	63 45	67 48	67 42	69 39	65 39	61 45	73 46	73 44	70 42	62 43	63 42	64 42	63 44	55 39	61 43	63 47	67 49	70 48	68 45	68 50	69 42	66 40	64 42	62 45	65 48	64 47	64 47	61 48	65.7 44.6
HANA AIRPORT 355	MAX MIN	86 70	96 75	85 72	83 72	80 71	83 71	85 70	85 68	81 68	84 70	82 68	81 68	83 69	84 67	82 68	82 69	81 68	82 71	84 71	83 71	83 71	84 70	83 71	77 69	76 68	81 74	83 72	83 74	84 75	82 74	80 67	82.5 70.4
KAAHAPALI AP 453-1	MAX MIN	88 73	88 70	88 69	88 71	88 71	87 70	88 70	87 71	87 73	86 71	85 71	85 70	86 70	85 70	86 69	85 69	86 70	87 72	87 70	86 72	88 70	87 71	86 71	82 70	83 69	87 68	85 72	85 69	87 71	82 66	86.2 70.4	
KAHULUI WSO 398 AP	MAX MIN	90 69	88 74	89 69	88 74	89 71	89 69	89 70	86 74	87 74	87 69	90 72	87 69	88 71	87 69	85 73	85 72	87 67	91 73	90 74	89 70	89 72	89 73	82 72	85 69	86 73	86 75	86 71	91 74	90 70	88 69	87.6 71.3	
KAILUA 446	MAX MIN	80 70	80 69	80 69	78 68	76 68	78 68	77 68	78 67	78 66	77 66	78 66	78 66	79 67	77 66		79 64	78 65	79 68	79 72	79 72				80 66	75 66	79 67	79 67	79 67	79 65	78.3 67.4		
KEAWAKAPU BEACH 260-2	MAX MIN	88 65	92 67	92 66	90 67	90 68	91 65	90 66	91 67	92 64	91 63	92 65	85 61	88 68	90 67	87 67	88 66	87 69	88 69	89 67	89 67	88 67	89 67	88 70	89 66	84 65	85 69	88 65	89 71	88 68	87 67	88.8 67.2	
KULA SANATORIUM 267	MAX MIN	73 56	70 57	75 57	72 58	75 59	75 56	73 57	73 54	74 54	75 55	75 55	58 58	59 59																			

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HAWAII																																	
UH AGRI RES CNTR 324.5	MAX MIN	76 57	76 57	77 58	76 60	76 60	76 57	77 56	72 58	74 56	76 54	75 58	69 58	72 60	73 58	74 58	74 58	77 59	76 59	76 60	74 60	74 61	75 60	73 56	77 59	77 58	79 60	74 61	75 60	72 60	69 58	74.7 58.5	
ISLAND OF HAWAII																																	
HAWAII VOLCNS NP HD 54	MAX MIN		73 53	68 55	71 57	68 57	73 55	70 54	73 54	67 52	66 52	71 55	68 53	75 56	74 53	76 55	73 53	75 55	73 58	70 58	69 56	68 54	73 52	74 54	71 57	69 54	75 58	73 58	76 59	71 57	71 59	67 56	71.4 55.3
HILO WSO AP 87	MAX MIN	84 67	80 71	81 68	80 70	83 69	83 68	83 79	80 66	85 66	83 67	86 66	85 66	83 68	84 67	80 66	83 69	83 71	82 70	79 68	83 68	80 68	78 70	79 71	82 73	84 70	82 72	86 71	82 72	79 69	82.1 68.9		
KAINALIU 73.2	MAX MIN	80 60	82 58	79 62	79 59	82 62	81 59	80 59	81 58	79 61	79 65	81 63	79 65	79 65	81 65	80 64	80 64	78 64	83 64	82 64	79 64	80 63	80 66	82 66	78 67	82 66	82 65	82 65	81 65	80 67	80.5 63.3		
KAMUELA 192.2	MAX MIN	75 59	75 60	74 61	75 63	75 63	75 62	76 63	75 63	73 61	69 59	74 56	76 56	77 58	80 60	82 57	80 64	78 57	83 64	82 62	79 57	75 58	75 60	72 57	75 60	75 61	77 60	79 59	79 58	77 61	76.1 59.9		
KAPOHO BEACH 93.11	MAX MIN	89 70	89 71	87 69	89 72	85 71	87 69	88 69	83 68	85 68	87 68	85 67	85 68	89 68	90 67	90 70	87 68	90 67	82 70	85 71	85 70	85 69	87 70	86 71	85 70	81 70	83 71	84 70	88 71	88 74	89 70	87 71	86.5 69.6
KONA (KAILUA) 68.3	MAX MIN		90 72	86 73	85 71	87 73	85 70	87 70	86 70	87 70	86 70	85 72	86 71	85 72		87 72	89 72	88 73	85 72	87 71	87 70		82 71	89 73	88 76	87 73	86 72			88 73	88 73	86.6 71.9	
KULANI CAMP 79	MAX MIN	67 60	76 50	64 50	65 49	65 51	70 51	68 52	68 51	61 44	64 43	65 42		67 54	67 48	70 49	67 48	70 54	67 48	61 50	68 58	68 50	67 59	69 48	69 54	63 50	66 58	67 54	70 50	68 50	69 56	62 51	67.0 51.1
MAUNA KEA OBS 111.2	MAX MIN	53 36	55 35	55 34	49 30	45 31	46 29	50 30	50 30	57 33	57 33	59 39	54 35	48 32	54 30	40 26	42 26	48 30	48 30	46 27	46 30	52 30	53 35	54 34	55 37		45 32	47 31	44 30	49 30	50 34	50.0 31.9	
MAUNA LOA SLOPE OBS	MAX MIN	60 43	55 38	57 39	50 36	52 35	51 33	54 35	56 39	59 42	61 42	55 40	53 38	52 39	50 36	48 35	55 34	49 36	48 34	48 35	54 37	53 37	50 37	53 36	50 35	52 33	53 35	50 34	51 37	50 36	51 38	57 45	53.0 37.1
MOUNTAIN VIEW 91	MAX MIN		81 61	75 63	79 63	72 65	77 63	80 62	81 64	80 60	73 61	79 61	78 61	82 61	83 61	83 62	80 65	76 65	76 62	79 65	80 64	78 65	79 62	77 64	71 64	77 64	78 65	84 66	77 66	84 65	76 55	78.6 62.8	
NARLEHU 14	MAX MIN		83 65	82 68	83 68	75 68	81 67	77 64	77 65	81 63	80 64	81 65	80 65	81 65	78 65	81 65	84 63	82 64	81 64	79 68	77 66	76 66	78 66	81 62	84 63	82 66	82 69	82 66	80 69	73 67	80 68	79 67	80.0 65.5
OOKALA 223	MAX MIN	81 70	80 68	79 68	79 69	79 69	82 69	80 68	80 67	75 69	82 68	80 68	81 67	82 71	82 70	82 67	81 69	77 69	80 69	81 68	80 69	80 69	83 69	74 66	75 68	77 68	79 68	81 68	81 69	82 70	81 71	79.9 68.6	
OPIHIHALE 2 24.1	MAX MIN	81 61	79 65	80 61	82 63	80 62	80 61	80 60	82 63	79 63	81 61	82 62	80 62	80 65	81 62	80 64	82 61	84 63	79 62	84 64	77 63	79 61	82 63	80 63	80 64	80 64	80 64	81 64	81 64	82 64	82 65	80.6 62.8	
PUUKOHOLA HEIAU 98.1	MAX MIN	90 69	90 69	92 70	96 68	89 73	91 71	92 70	93 70	93 69	92 68	92 68	88 69	88 69	87 69	88 69	90 73	91 72	94 72	88 71	90 72	93 72	92 71	89 71	92 71	89 71	91 71	91 71	89 71	88 71	89 70	87 70	90.5 70.1
SOUTH KONA 2.31	MAX MIN	75 61	81 58	75 62	79 61	76 60	78 64	79 61	80 62	77 59	77 59	79 57	78 59	78 59	80 61	82 59	83 59	77 59	75 63	78 61	79 59	77 61	78 60	78 64	81 62	77 61	78 60	79 62	77 63	79 62	78 62	78.3 60.6	
UPOLU POINT USCG 159.2	MAX MIN	79 71	78 70	85 68	85 73	82 74	85 72	87 71	86 69	86 69	84 66	86 68	86 71	85 73	85 72	85 71	80 70	84 72	68	83 72	85 71	84 70	85 68	87 73	79 69	83 69	84 73	83 66	85 69	85 73	85 72	84 69	84.0 70.1

SEE REFERENCE NOTES FOLLOWING STATION INDEX

# DAILY TEMPERATURES

HAWAII AND PACIFIC  
OCTOBER 1978

STATION		DAY OF MONTH																															AVERAGE
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
PACIFIC																																	
• • •																																	
EAST OF 180TH MERIDIAN																																	
CANTON ISLAND	MAX MIN	90 78	89 72	88 78	88 78	88 79	89 78			90 75	88 77	88 75	90 74	88 76		87 77	88 77	88 78	89 76	88 74	89 74		90 77	90 77	89 74	89 74	90 72	91 79		91 79	90 78	89.0 76.2	
JOHNSTON IS WSO AP	MAX MIN	83 79	84 80	85 78	84 79	84 79	84 79	85 79	83 78	84 80	85 79	85 80	85 79	85 77	85 79	85 79	85 78	84 78	84 77	85 77	84 76		85 79	84 76	84 78	83 77	83 78	83 76	84 78	82 75	83 76	82 75	84.1 78.0
FRENCH FRIGATE SHOALS	MAX MIN	87 70	86 73	84 71	88 69	86 71	87 71	87 74	88 72	88 74	85 71	85 73	87 71	87 71	83 69	84 68	86 66	84 66	88 59	84 67	86 67	85 70	86 68	79 67	82 65	83 66	87 66	83 63	81 63	79 62	79 62	84.7 68.0	
MIDWAY SAND ISLAND	MAX MIN	85 76	86 76	84 75	86 73	86 77	86 71	86 75	85 74	86 74	83 69	82 70	81 68	82 66	83 73	84 68	82 73	83 68	85 74	85 72	81 71	79 73	81 71	83 75	82 73	83 71	80 71	80 69	79 71	79 70	78 70	81 71	82.8 72.1
PAGO PAGO WSO AP	MAX MIN	87 74	84 74	88 72	88 74	83 74	86 73	87 75	87 76	85 75	86 74	83 75	82 75	82 73	80 75	82 74	84 76	83 76	85 75	84 77	84 77		86 76	86 75	85 76	86 73	86 74	88 75	88 76	87 75	88 74	85.3 74.8	
• • •																																	
WESTERN PACIFIC ISL. NORTH OF 12 N																																	
ANDERSEN AFB GUAM	MAX MIN	86 78	88 78	85 78	86 76	86 77	84 78	86 80	85 79	83 78	84 78	86 78	84 78	85 77	84 78	83 78	85 77	84 77	85 78	86 79	86 78	84 77	80 74	81 75	83 74	87 75	84 78	84 78	82 75	83 76	78 75	80 75	84.1 77.1
CLARK AFB LUZON	MAX MIN																																
GUAM NAS	MAX MIN																																
GUAM WSO	MAX MIN	86 75	87 76	86 74	86 75	87 75	85 75	86 75	86 76	87 75	85 74	87 72	85 73	87 73	87 74	84 73	86 71	87 73	87 71	89 70	88 68	87 68	88 71	85 72	85 72	87 72	86 75	86 75	85 75	88 71	81 73	86 73	86.2 73.1
INARAJAN - NASA	MAX MIN	88 76	88 77	88 76	88 75	88 75	88 75	89 74	89 71	88 71	87 70	87 70	88 69	89 76	88 76	89 75	87 76	88 76	88 75	88 78	87 76	87 76	88 78	87 73	87 73	88 72	88 72	88 72	87 71	88 73	87 73	87.8 74.1	
SAIPAN LORAN	MAX MIN																																
WAKE ISLAND WSO AP	MAX MIN	85 78	91 81	90 78	91 81	90 80	90 80	91 79	84 77	84 76	90 81	90 79	89 79	89 81	89 79	89 78	86 79	88 79	89 80	90 80	90 81	90 76	90 80	91 80	88 82	90 78	90 81	89 81	86 76	85 79	88 76	85 73	88.6 79.0
• • •																																	
CAROLINE AND MARSHALL ISLANDS																																	
ENWETAK	MAX MIN																																
FALALOP I ULITHI ATOLL	MAX MIN																																
KAPINGAMARANGI ATOLL	MAX MIN	86 75	89 74	90 75	89 76	90 75	89 74	89 74	86 75	89 69	90 75	90 75	91 74	90 75	90 77	90 77	90 76	91 75	91 75	91 70	90 75	91 70	90 72	91 74	90 72		89 75	89 78		91 76	87 76	89.6 74.6	
KOROR WSO	MAX MIN	90 76	87 77	88 75	86 76	84 74	86 72	83 73	83 73	85 73	87 74	88 76	87 73	88 73	87 75	88 77	89 78	86 74	89 77	87 75	86 75	89 75	88 76	89 75	89 76	87 78	90 77	90 78	89 75	87 74	88 76	88 78	87.4 75.3
KWAJALEIN MISSILE RGN	MAX MIN	86 75	88 78	89 80	88 79	88 77	86 77	90 80	87 77	85 77	86 73	90 79	88 77	88 76	88 81	88 79	89 81	89 79	89 76	91 78	88 77	88 79	88 73	83 73	83 75	86 75	88 80	88 77	88 75	87 78	88 81	87.5 77.5	
LELE I KOSRAE	MAX MIN																																
MAJURO WSO AP	MAX MIN	82 72	87 76	87 78	87 77	87 76	89 75	88 80	87 76	85 77	87 76	89 79	88 74	88 71	88 78	88 76	87 77	87 75	85 74	88 77	89 76	89 74	88 76	87 75	83 75	83 76	87 74	88 78	88 72	86 73	84 76	87 77	86.8 75.6
METALANIM	MAX MIN	88 74	87 73	86 75	88 75	89 75	87 75	88 74	88 74	88 76	85 74	85 72	90 73	83 72	89 73	92 73	90 73	89 73	86 74	89 72	89 71	88 75	88 73	88 75	86 75	88 76	86 74	89 74	88 74	89 75	82 75	90 74	87.7 73.6
PONAPE WSO	MAX MIN	88 73	89 73	89 74	90 74	91 72	90 73	90 74	91 73	91 74	92 72	92 73	92 73	80 71	89 71	90 72	90 72	91 72	90 72	90 71	88 70	88 71	90 71	90 72	90 72	91 75	90 74	88 72	90 72	90 74	91 73	89.2 72.5	
SATAWAN ATOLL	MAX MIN																																
TRUK MOEN I WSO AP	MAX MIN	83 74	89 75	90 76	89 76	88 76	91 74	88 76	84 74	84 76	87 74	86 77	90 78	88 76	87 76	89 76	87 77	87 74	89 76	90 76	88 76	88 75	89 77	88 77	88 77	87 77	90 77	90 76	90 75	80 74	87.7 75.9		
WOLEAI ATOLL	MAX MIN																																
YAP WSO AP	MAX MIN	89 77	89 74	89 78	89 70	88 72	82 70	84 72	85 70	84 73	86 70	86 74	85 70	85 71	87 77	87 75	87 73	87 74	89 74	88 73	86 74	86 74	87 70	86 70	87 70	88 71	89 73	88 74	88 72	88 70	88 71	87 78	86.9 72.7

SEE REFERENCE NOTES FOLLOWING STATION INDEX

# EVAPORATION AND WIND

HAWAII AND PACIFIC  
OCTOBER 1978

STATION	DAY OF MONTH																															TOTAL OR AVG.	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
HAWAII																																	
ISLAND OF KAUAI																																	
LIMUE WSO AP 1020.1	EVAP	.41	.26	.25	.37	.33	.45	.41	.38	.37	.38	.40	.43	.15	.18	-	.26	.30	.31	.28	.36	.25	.11	.19	.35	.35	.29	.32	.47	.20	-	9.758	
	WIND	166	202	159	199	228	184	187	204	191	185	179	167	80	13	144	118	102	101	203	205	151	69	135	174	119	120	110	103	89	75	126	4488
	MAX	87	88	85	85	87	85	85	85	85	86	87	82	82	82	82	83	85	84	84	86	84	78	73	79	81	81	82	83	86	83	83	83.6
	MIN	65	68	66	63	67	65	65	64	65	65	65	64	65	64	65	60	58	65	68	58	66	64	61	61	61	59	59	66	66	66	64	63.8
ISLAND OF OAHU																																	
HONOLULU OBSERV 702.2	EVAP	.45	.38	.43	.44	.39	.35	.37	.45	.40	.45	.42	.34	.33	.30	.30	.30	.30	.26	.24	.30	.45	.30	.19	.45	.45	.45	.30	.45	.26	.20	-	11.068
	WIND	31	35	25	24	31	16	24	26	32	33	28	25	27	25	30	18	24	19	29	30	20	24	35	47	35	20	17	27	22	26	15	820
	MAX	90	90	91	89	89	81	88	86	90	87	90	88	92	90	90	87	91	89	90	91	83	87	85	86	86	89	86	90	90	90	70	87.8
	MIN	67	68	66	67	69	65	66	67	67	65	66	68	68	67	67	65	64	65	68	68	66	67	65	61	62	64	65	65	70	70	64	66.2

SEE REFERENCE NOTES FOLLOWING STATION INDEX

# EVAPORATION AND WIND

HAWAII AND PACIFIC  
OCTOBER 1978

STATION	DAY OF MONTH																															TOTAL OR AVG.	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
PACIFIC																																	
• • • EAST OF 180TH MERIDIAN																																	
JOHNSTON IS W50 AP	EVAP WIND	.30 217	.24 200	.30 176	.34 190	.32 186	.24 166	.25 215	.42 198	.40 203	.10 181	.21 131	.29 94	.43 96	.38 108	.28 96	.28 110	.26 86	.26 169	.26 148	.32 149	.29 192	.29 203	.34 246	.37 254	.30 184	.21 214	- 233	- 239	.53 167	.16 167	.40 164	9.378 5368
PAGO PAGO W50 AP	EVAP WIND MAX MIN	.18 119 91 76	.30 69 97 72	.23 46 97 72	.22 67 96 72	.12 51 84 75	.10 31 87 75	.26 78 96 73	.26 120 96 75	.20 154 90 77	.06 29 94 74	.22 131 93 74	.06 202 95 74	- 254 88 70	- 217 92 73	- 235 91 73	.34 214 83 72	.24 392 83 72	.30 248 90 73	.30 257 90 71	.36 219 88 73	- 138 89 75	.27 138 89 75	.05 93 89 75	.13 66 85 74	- 46 85 73	- 30 90 70	.24 44 94 72	.22 55 94 72	.28 38 94 72	.19 67 94 74	.24 3843 91.4 73.5	
• • • WESTERN PACIFIC ISL. NORTH OF 12 N																																	
GUAM W50	EVAP WIND MAX MIN	.30 75 92 73	.23 62 92 73	.21 42 88 73	.17 52 91 73	.14 51 88 74	.15 52 88 73	.25 154 87 74	.17 103 87 72	.15 63 91 71	- 22 88 73	.11 79 89 71	.30 95 81 75	.10 116 90 72	.10 39 89 72	.17 22 85 71	.22 44 91 71	.22 54 90 71	.19 38 89 70	.21 42 93 70	.29 45 92 70	.33 64 89 69	.15 112 86 75	.27 321 87 70	.23 83 86 75	.28 194 86 75	.29 146 86 73	.21 69 83 74	.11 25 89 73	.17 60 85 72	.18 2539 88.4 72.2		
• • • CAROLINE AND MARSHALL ISLANDS																																	
YAP W50 AP	EVAP WIND MAX MIN	.32 110 92 70	.15 71 91 72	.06 108 92 69	.25 102 90 71	- 65 85 72	.33 108 73 68	.26 106 77 69	.21 123 91 70	.24 150 74 69	.25 78 83 69	.01 38 82 72	.12 75 76 68	.04 61 79 68	.19 38 87 69	.30 45 93 72	.05 33 83 72	.07 27 82 69	.17 18 88 70	.20 25 91 72	.09 23 90 71	.28 30 89 72	.06 16 83 70	.11 38 86 71	.09 35 83 71	.22 113 87 71	.17 37 88 70	.24 80 89 70	.16 66 86 70	.10 66 88 70	.18 34 92 72	.24 48 91 72	5.338 1987 85.8 70.3

SEE REFERENCE NOTES FOLLOWING STATION INDEX



# STATION INDEX

HAWAII AND PACIFIC  
OCTOBER 1978

STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES				OBSERVER
								TEMP.	PRECIP.	EVAP.	SPECIAL (SEE NOTES)	
HAWAII												
ISLAND OF KAUAI												
ALEXANDER RESV 983	0140	02	KOLOA	2	21 57	159 32	1610				C	MC BRYDE SUG CO LTO
ANAHOLA 1114	A 0145	01	KAWAIIHAW	1	22 08	159 18	180		7A		C	LIHUE PLANTATION CO LTO
BRYOESWOOD STA 985	A 0240	02	KOLOA	2	21 56	159 32	720		7A			MC BRYDE SUG CO LTO
EAST LAWA 934	A 0456	02	KOLOA	2	21 55	159 30	440		7A			MC BRYDE SUG CO LTO
ELEELE 927	A 0470	02	KOLOA	2	21 54	159 35	150		6A			MC BRYDE SUG CO LTO
HALAULA 1110	A 0935	01	KAWAIIHAW	1	22 07	159 19	253		7A			LIHUE PLANTATION CO LTO
HALENANAH 1006	A 1038	02	LIHUE	2	21 58	159 26	490		8A			LIHUE PLANTATION CO LTO
HANAHANAPUNI 1055.2	1140	02	KAUAI	2	22 03	159 25	600				C	LIHUE PLANTATION CO LTO
HANAIEI TUNNEL 1053	A 1170	01	KAWAIIHAW	1	22 05	159 28	1218		MO			U S GEOLOGICAL SURVEY
HUKIPO 945	2161	03	WAIKOA	3	21 59	159 41	800		8A			KEKAHA SUGAR CO LTO
LIILILUA INTAKE 1050	A 2222	02	LIHUE	2	22 02	159 28	1050		VAR			LIHUE PLANTATION CO LTO
INTAKE WAINIHA PC 1086A	2227	01	HANAIEI	1	22 09	159 34	690		WI			MC BRYDE SUG CO LTO
KANALOHULU 1075	3099	03	WAIKOA	3	22 08	159 40	3600	7A	7A		C	STATE DIVISION OF PARKS
KANEHA RESERVOIR 1092	A 3104	01	KAWAIIHAW	1	22 08	159 23	830		7A			LIHUE PLANTATION CO LTO
KAPAA STABLES 1104	3159	01	KAWAIIHAW	1	22 05	159 20	175				C	LIHUE PLANTATION CO LTO
KEALIA 1112	A 3982	01	KAWAIIHAW	1	22 06	159 19	9		7A			LIHUE PLANTATION CO LTO
KEKAHA 944	4272	03	WAIKOA	3	21 58	159 43	9		8A		C	KEKAHA SUGAR CO LTO
KILAUEA 1134	A 4561	01	HANAIEI	1	22 13	159 25	320		7A		C	NICK RAPOZO
KILAUEA POINT 1133	4568	01	HANAIEI	1	22 14	159 24	180	7A	7A			MRS ELIZABETH MACIOLEK
KOLO 1033	4735	03	WAIKOA	3	22 04	159 46	36		7A			KEKAHA SUGAR CO LTO
KOLOA 936	A 4742	02	KOLOA	2	21 55	159 28	240		8A			MC BRYDE SUG CO LTO
KOLOA LN (MAK) 940.1	4748	01	KAUAI	2	21 52	159 27	52	7A	7A			AUSCG LORAN STATION
KOLOA MAUKA 994	A 4750	02	KOLOA	2	21 57	159 29	640		7A			MC BRYDE SUG CO LTO
KUKUIULA 935	A 4950	02	KOLOA	2	21 54	159 30	100		6A			MC BRYDE SUG CO LTO
LIHUE VARIETY ST 1062	A 5560	02	LIHUE	2	22 01	159 23	380		7A		C	LIHUE PLANTATION CO LTO
LIHUE 1020	A 5575	02	LIHUE	2	21 59	159 22	207		7A			LIHUE PLANTATION CO LTO
LIHUE WSO AP 1020.1	R 5580	02	LIHUE	2	21 59	159 21	103	8A	8A	7A	J	NATL WEATHER SERVICE
MAKAWELI 965	A 5864	03	WAIKOA	3	21 55	159 38	140		7A			OLOKELE SUGAR CO
MANA 1026	6082	03	WAIKOA	3	22 02	159 46	20		8A			KEKAHA SUGAR CO LTO
MOHIHI UPR CROSS 1083	A 6433	01	WAIKOA	3	22 07	159 36	3500		MIO			U S GEOLOGICAL SURVEY
MOLOAA 1145	A 6529	01	KAWAIIHAW	1	22 11	159 20	330		7A			THEODORE JAVELLANA JR
MOUNT WAIKALEALE 1047	R 6565	03	WAIKOA	2	22 04	159 30	5148		MIO			U S GEOLOGICAL SURVEY
NIU RIDGE 1035	6850	03	WAIKOA	3	22 02	159 44	1250	6A	6A			KEKAHA SUGAR CO LTO
N WAILUA DITCH 1051	A 6888	02	LIHUE	2	22 04	159 28	1110		7A			LIHUE PLANTATION CO LTO
N WAILUA RIVER 1055	A 6893	02	LIHUE	2	22 04	159 26	650		MO			LIHUE PLANTATION CO LTO
PH WAINIHA 1115	8155	01	HANAIEI	1	22 12	159 34	101		6A		C	MC BRYDE SUG CO LTO
PRINCEVILLE RANCH 1117	8165	01	HANAIEI	1	22 13	159 29	295		9A		C	PRINCEVILLE RANCH INC
PUEHU RIDGE 1040	8205	03	WAIKOA	3	22 01	159 42	1660		8A			KEKAHA SUGAR CO LTO
PUHI 1013	A 8217	02	LIHUE	2	21 58	159 24	329		8A			LIHUE PLANTATION CO LTO
WAILUA 930	A 8941	02	KOLOA	2	21 54	159 34	215		7A		C	MC BRYDE SUG CO LTO
WAIKAWA LOWER 1054	8958	02	LIHUE	2	22 01	159 27	565	6A	6A			LIHUE PLANTATION CO LTO
WAIKAWA UPPER 1052	8966	02	LIHUE	2	22 01	159 28	780		6A			LIHUE PLANTATION CO LTO
WAILUA 943	9253	03	WAIKOA	3	21 59	159 43	10		8A			KEKAHA SUGAR CO LTO
WAILUA KAI 1065	A 9467	02	LIHUE	2	22 02	159 21	50		7A			LIHUE PLANTATION CO LTO
WAIKAWA 947	9629	03	WAIKOA	3	21 58	159 41	20	8A	8A			KEKAHA SUGAR COMPANY
WEST LAWA 931	A 9955	02	KOLOA	2	21 54	159 31	210		6A			MC BRYDE SUG CO LTO
ISLAND OF OAHU												
AHIIMANU LOOP 839.12	0055	01	KOOLAUPOKO	1	21 26	157 51	320				C	OR OON MITCHELL
ALOHA STADIUM-HALAWA	0172	03	OAHU	3	21 23	157 56	40	8A	8A			ALOHA STADIUM
BERETANIA PUMPING STA	0211	02	HONOLULU	2	21 19	157 51	20		9A			BOARD OF WTR SUPPLY
B Y U LAIE 903.1	0240	01	KOOLAUPOKO	1	21 39	157 56	20	12M	12M			B Y U-HAWAII CAMPUS
CAMPBELL INO PK 702.5	0248	02	OAHU	3	21 19	158 07	10		8A			CHEVRON U S A INC
CAMP 84 807	0300	03	EWA	3	21 26	158 04	760				C	OEL MONTE CORPORATION
COCONUT ISLAND 840.1	0350	01	KOOLAUPOKO	1	21 26	157 47	15		8A			H INST MARINE BIOLOGY
DOOWSETT HIGHLANDS 780.8	0438	02	HONOLULU	2	21 21	157 50	565				C	J L BANNING
EWA PLANTATION 741	0507	03	EWA	3	21 21	158 02	5		7A			OAHU SUGAR COMPANY
HALAWA SHAFT 771.2	0964	02	HONOLULU	2	21 23	157 54	170				C	NWS SNS AREA II PRH
HAWAII KAI CRSE 724.19	1308	02	OAHU	2	21 18	157 39	21				C	HAWAII KAI GOLF COURSE
HELEMANO INTAKE 881	1384	05	WAILUA	5	21 33	158 00	1274				C	WAILUA SUGAR CO INC
HOKULOA 725.2	A 1540	03	EWA	3	21 24	158 06	2260				C	WILLIAM M KIRKPATRICK
HONOLULU OBSERV 702.2	1918	03	EWA	3	21 19	158 00	5	9A	9A	9A		NATL WEATHER SERVICE
HONOLULU WSO 703 AP	1919	02	HONOLULU	2	21 20	157 55	7	MIO	MIO		C	NATL WEATHER SERVICE
KAENA POINT 841.3	2410	04	WAILUA	4	21 34	158 15	1240		9A			U S AIR FORCE
KAHANA 883	A 2462	01	KOOLAUPOKO	1	21 31	157 54	800		WI			WAIKAWA WATER CO LTO
KAHUKU 912	A 2570	01	KOOLAUPOKO	1	21 42	157 59	15				C	KIULIMA HOTEL

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								TEMP.	PRECIP.	EVAP.	SPECIAL (SEE NOTES)		
ISLAND OF OAHU													
KAILUA FIRE STA 791.3	2683	01	KOOLAUPOKO	1	21 24	157 45	10						KAILUA FIRE STATION
KALIHI RES SITE 777	R 2960	02	HONOLULU	2	21 23	157 50	910		MID				BOARD OF WTR SUPPLY
KANEOME MAUKA 781	3113	01	KOOLAUPOKO	1	21 25	157 49	325	7A	7A				STATE HOSPITAL
KAPALAMA 773	A 3268	02	HONOLULU	2	21 21	157 52	614		8A				KAMEHAMEHA SCHOOLS
KAWAIHAPAI 841	A 3734	05	WAIALUA	5	21 35	158 11	40		7A				WAIALUA SUGAR CO INC
KEMOO CAMP 8 855	A 4318	05	WAIALUA	5	21 33	158 05	725		7A				WAIALUA SUGAR CO INC
KOOLAU DAM 833	A 4766	05	WAIHAWA	5	21 30	157 58	1160		8A				US ARMY SCHOFIELD BRKS
LULUKU 781.7	5655	01	KOOLAUPOKO	1	21 24	157 49	240					C	NATL WEATHER SERVICE
MAKAHA PUMP 800.2	5782	04	OAHU	4	21 29	158 12	400					C	CAPITAL INVESTMENT CO
MAKAKILO 730.1	5789	03	OAHU	3	21 21	158 06	300		6A				NEAL ADAMS
MANOA 712.1	6122	02	HONOLULU	2	21 19	157 49	220		7A				CHARLES COOKE
MANOA LYON ARBORETUM	6128	02	OAHU	2	21 20	157 48	500	8A	8A				LYON ARBORETUM
MANOA TUNNEL 2 716	R 6130	02	HONOLULU	2	21 20	157 48	650		MID				BOARD OF WTR SUPPLY
MAUNAWILI 787.1	6222	01	KOOLAUPOKO	1	21 21	157 46	395					C	EXP STN H 5 P A
MOANALUA 770	6395	02	HONOLULU	2	21 21	157 54	20		9A				JOHN A ROXBURGH
MOUNT KAALA 844	6553	04	WAIANAE	4	21 31	158 09	4025					C	FAA
NUUANU RES 4 783	6928	02	HONOLULU	2	21 21	157 49	1048		MID				BOARD OF WTR SUPPLY
NUUANU RESERVR 5 775	A 6933	02	HONOLULU	2	21 21	157 50	410		WI				BOARD OF WTR SUPPLY
OPAEULA 870	A 7150	05	WAIALUA	5	21 34	158 02	1060	7A				C	WAIALUA SUGAR CO INC
PAIKO DR 723.4	7540	02	HONOLULU	2	21 17	157 44	10		6P				D L GRUBB
PALI GOLF COURSE 788.1	7656	01	OAHU	1	21 23	157 47	480		10A				CC DEPT PK5 RECREATION
PALOLO VALLEY 718	R 7664	02	HONOLULU	2	21 20	157 46	995		MID				BOARD OF WTR SUPPLY
PAUOA FLATS 784	R 7810	02	HONOLULU	2	21 21	157 48	1640		MID				BOARD OF WTR SUPPLY
PEARL COUNTRY CL 760.2	7942	03	OAHU	3	21 23	157 56	120					C	PEARL COUNTRY CLB OF HA
PUNALUW PUMP 905.2	8314	01	KOOLAUPOKO	1	21 35	157 54	20					C	NATL WEATHER SERVICE
PUNCHBOWL CRATER 709	A 8316	02	HONOLULU	2	21 19	157 51	360		8A				NAT MEM CEMETERY
PUPUKA HEIGHTS 896.4	8342	01	WAIALUA	1	21 39	158 02	900					C	JACK N WHEELER
PUU MANAWAHUA 725.6	8500	03	OAHU	3	21 23	158 06	1690		8A				RICHARD DAVIS
TANTALUS 2 780.5	8738	02	HONOLULU	2	21 20	157 50	1325		7A				R E WHITE
UNIV OF HAWAII 713	A 8815	02	HONOLULU	2	21 18	157 49	79		8A				UNIVERSITY OF HAWAII
WAIHAWA DAM 863	8945	05	WAIHAWA	5	21 30	158 03	854					C	WAIALUA SUGAR CO INC
WAIHOLE 837	A 8964	01	KOOLAUPOKO	1	21 28	157 53	745		8A			C	WAIHOLE WATER CO LTD
WAIALAE KAHALA 715	9185	02	HONOLULU	2	21 16	157 46	10		7A				WAIALAE COUNTRY CLUB
WAIALEE 896.3	9190	01	KOOLAUPOKO	1	21 41	158 02	33	8A	8A				WAIALEE LIVESK RES FARM
WAIALUA 847	A 9195	05	WAIALUA	5	21 35	158 07	32	7A	7A			C	WAIALUA SUGAR CO INC
WAIANAE 798.2	A 9231	04	WAIANAE	4	21 27	158 11	10		7A				BEN MAYES
WAIKAWA 836	A 9261	03	EWA	3	21 28	157 56	800		MO				WAIHOLE WATER CO LTD
WAIKANE 885	A 9340	01	KOOLAUPOKO	1	21 30	157 53	760		WI				WAIHOLE WATER CO LTD
WAIKIKI 717.2	9397	02	HONOLULU	2	21 16	157 49	10	8A	8A				HONOLULU ZOO
WAILUPE VLY SCH 723.6	9500	02	HONOLULU	2	21 18	157 45	180					C	WAILUPE VALLEY SCHOOL
WAIMANALO EXP FM 795.1	9523	01	KOOLAUPOKO	1	21 20	157 43	60		7A				U H WAIMANALO EXP FARM
WAIMANALO NONOKI 795.2	9534	01	OAHU	1	21 20	157 43	120					C	WAIMANALO EXP FARM
WAIKANE 892	9593	05	WAIALUA	5	21 38	158 04	330					C	WAIALUA SUGAR CO INC
WAIKAWA 750	A 9738	03	EWA	3	21 23	158 01	59		8A				WAIHOLE WATER CO LTD
WILHELMINA RISE 721	R 9980	02	HONOLULU	2	21 18	157 47	1100		MID				BOARD OF WTR SUPPLY
ISLAND OF MOLOKAI													
KALAUPAPA 563	A 2896	01	MOLOKAI	1	21 12	156 59	30		8A				KALAUPAPA SETTLEMENT
KAUNAKAKAI 536	3541	01	MOLOKAI	1	21 06	157 01	12		7A				MOLOKAI RANCH LTD
KAUNAKAKAI MAUKA 536.5	3547	01	MOLOKAI	1	21 06	157 01	70					C	MOLOKAI GENERAL HOSP
KEONELELE PENS 551	A 4394	01	MOLOKAI	1	21 12	157 12	560		VAR				MOLOKAI RANCH CO LTD
KUALAPUU 534	A 4778	01	MOLOKAI	1	21 09	157 02	825					C	DEL MONTE CORPORATION
MAUNALO 511	A 6190	01	MOLOKAI	1	21 08	157 13	1070					C	MOLOKAI RANCH CO LTD
MOLOKAI AP 524	6534	01	MOLOKAI	1	21 09	157 06	450	8A	8A				ALOHA AIRLINES
PUU O HOKU RANCH 542.1	8549	01	MOLOKAI	1	21 09	156 44	700					C	CHARLIE APIA (FOREMAN)
WAIKOLU 540	A 9404	01	MOLOKAI	1	21 08	156 55	3550		WI				MOLOKAI RANCH CO LTD
ISLAND OF LANAI													
KANEPUU 690	A 3130	01	LAHAINA	1	20 52	157 00	1650		WI				U S D A
KAUMLAPAU HARBOR 658	3461	01	LAHAINA	1	20 47	157 00	30		8A				DOLE COMPANY
LANAI AIRPORT 656	5275	01	LAHAINA	1	20 48	156 57	1300		8A				HAWAIIAN AIR
LANAI CITY 672	A 5286	01	LAHAINA	1	20 50	156 55	1620	7A	7A				DOLE COMPANY
LANAIHALE 684	A 5301	01	LAHAINA	1	20 49	156 53	3370		WI				U S D A
MAHANA 694	A 5704	01	LAHAINA	1	20 52	156 55	1430		MO				U S D A
MALAEUA 676	A 6012	01	LAHAINA	1	20 46	156 55	1150		WI				KOELE COMPANY
WAIKAEKUA 685	A 9021	01	LAHAINA	1	20 47	156 52	2000		WM				KOELE COMPANY

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ISLAND OF MAUI												
AUWAHI 252	A 0175	02	HANA	2	20 37	156 20	2060		VAR			ULUPALAKUA RCH CO LTO
FIELD 46 474	0541	04	LAHAINA	4	20 59	156 38	1050				C	MAUI LANO-PINEAPPLE CO
HAELAAU 477	A 0790	04	LAHAINA	4	20 57	156 36	2980		MO			MAUI LANO-PINEAPPLE CO
HALEAKALA 8 E S 434	A 0995	01	MAKAWAO	1	20 51	156 18	2100		7A			U OF H AGRIC EXP STA
HALEAKALA RANCH 432	A 0999	01	MAKAWAO	1	20 50	156 19	1850		8A			HALEAKALA RANCH CO
HALEAKALA R S 338	1004	02	MAKAWAO	2	20 46	156 15	7030	8A	8A			HALEAKALA NAT PARK
HALIIMAILE 423	A 1075	01	MAKAWAO	1	20 52	156 21	1070		3A			MAUI LANO-PINEAPPLE CO
HAMAKUPOKO 485	1086	01	MAKAWAO	1	20 55	156 21	320		5A			HAWAIIAN COM & SUG CO
HANA 354	1122	01	HANA	1	20 45	155 59	120				C	HARRY HASEGAWA
HANA AIRPORT 355	1125	01	HANA	1	20 48	156 01	61	8A	8A			ROYAL HAWAIIAN AIRLINES
HOLUA CABIN 259.5	A 1552	02	MAKAWAO	2	20 45	156 13	6930		MO			HALEAKALA NATL PARK RGS
HONOKOHU 480	A 1882	04	LAHAINA	4	20 58	156 36	870		MO			MAUI LANO-PINEAPPLE CO
HONOKOHU 493	A 1887	04	LAHAINA	4	21 00	156 39	135		6A			MAUI LANO-PINEAPPLE CO
HONOLUA FIELD 49 494	A 1914	04	LAHAINA	4	21 01	156 38	125		MO			MAUI LANO-PINEAPPLE CO
HONOMANU GULCH 341	A 1935	01	MAKAWAO	1	20 47	156 14	6280		MO			HALEAKALA RANCH CO
KAAHAPALI AP 453.1	2307	04	LAHAINA	4	20 56	156 42	8	8A	8A			AMFAC PROPERTIES INC
KAHAKULOA MAUKA 482.3	2453	03	WAILUKU	4	20 59	156 33	650				C	EDWARD CHANG
KAHOMA INTAKE 374	A 2552	04	LAHAINA	4	20 54	156 38	2000		WI			PIONEER MILL CO LTO
KAHULUI WSO 398 AP	R 2572	03	WAILUKU	3	20 54	156 26	48	M10	M10		C J	NATL WEATHER SERVICE
KAILIILI 436	A 2630	01	MAKAWAO	1	20 51	156 16	2520		MO			E MAUI IRR CO LTO
KAILUA 446	2679	01	MAKAWAO	1	20 54	156 13	700	7A	7A			E MAUI IRR CO LTO
KAUAI INTAKE 375	A 3433	04	LAHAINA	4	20 53	156 38	1585		WI			PIONEER MILL CO LTO
KAUPO RANCH HOUSE 259	3576	02	HANA	2	20 39	156 08	1020				C	KAUPO RANCH CO
KEAHUA 410	3910	03	MAKAWAO	3	20 52	156 23	480		5A			HAWAIIAN COM & SUG CO
KEANAE 346	A 4091	01	HANA	1	20 50	156 10	980		MO			E MAUI IRR CO LTO
KEAWAKAPU BEACH 260.2	4193	02	MAKAWAO	2	20 42	156 27	20	8A	8A		C	ALLEN L CORELL
KIHEI 311	4489	03	WAILUKU	3	20 47	156 27	90		7A			HAWAIIAN COM & SUG CO
KIPAHULU 258	4634	01	HANA	1	20 39	156 04	260		7A			HANA RANCH-KIPAHULU SEC
KUKUI 380	A 4887	04	LAHAINA	4	20 54	156 35	5788		MO			MAUI LANO-PINEAPPLE CO
KULA SANATORIUM 267	5006	02	MAKAWAO	2	20 42	156 22	3004	7A	7A			KULA SANATORIUM
LAHAINA 361	5177	04	LAHAINA	4	20 53	156 41	45	7A	7A		C	PIONEER MILL CO LTO
LAUNIUPOKO INTAKE 376	A 5404	04	LAHAINA	4	20 51	156 37	1280		WI			PIONEER MILL CO LTO
LAUNIUPOKO VILLAGE 372A	5408	04	LAHAINA	4	20 51	156 39	220		7A			PIONEER MILL CO LTO
LUPI UPPER 442	A 5665	01	MAKAWAO	1	20 53	156 15	1240		MO			E MAUI IRR CO LTO
MAHINAHINA 466	A 5715	04	LAHAINA	4	20 57	156 40	715		7A			PIONEER MILL CO LTO
MOKUPA 475	A 6521	04	LAHAINA	4	20 59	156 37	1290		MO			MAUI LANO-PINEAPPLE CO
NAKALELE FIELD 60 497	A 6645	04	LAHAINA	4	21 02	156 36	340		VAR			MAUI LANO-PINEAPPLE CO
OLINDA 332	A 7040	01	MAKAWAO	1	20 48	156 17	4127		VAR			E MAUI IRR CO LTO
OLOWALU 296.1	7059	04	LAHAINA	4	20 49	156 37	20		7A			PIONEER MILL CO LTO
PAAKEA 350	7194	01	HANA	1	20 49	156 07	1260		VAR		C	E MAUI IRR CO LTO
PAIA 406	7566	01	WAILUKU	1	20 55	156 23	170		6A			HAWAIIAN COM & SUG CO
PANILEIHULU 259.2	A 7674	02	HANA	2	20 41	156 08	3570		MO			KAUPO RANCH CO
PEAHI 488.6	7952	01	MAUI	1	20 54	156 17	830				C	BERNARD RUPLINGER
POHAKA BRIDGE 307.2	A 8060	03	WAILUKU	3	20 49	156 31	167		6A			WAILUKU SUGAR CO
POLIPOLI SPRINGS 267.2A	8070	02	MAKAWAO	2	20 41	156 20	6150		VAR			STATE DIV OF FORESTRY
PUOHOKAMOA 2 343	A 8336	01	HANA	1	20 50	156 13	2980		MO			E MAUI IRR CO LTO
PUUNE 396	8543	03	WAILUKU	3	20 53	156 27	60		7A			HAWAIIAN COM & SUG CO
PUU PAHI 352	A 8553	01	HANA	1	20 46	156 03	2160				S	E MAUI IRR CO LTO
SPRECKELSVILLE 400.2	8688	03	WAILUKU	3	20 54	156 25	85		8A			HAWAIIAN COM & SUG CO
TWIN GATES 261.3	A 8742	03	MAKAWAO	3	20 46	156 23	1310					KAONOULU RANCH
UH AGRI RES CNTR 324.5	8743	02	MAUI	2	20 46	156 20	3050	12M	7A		C	UH MAUI AGRI RESCH CNTR
UKULELE 333	A 8744	01	MAKAWAO	1	20 48	156 15	5230		MO			HALEAKALA RANCH CO
UKUMEHAME 301	A 8750	04	LAHAINA	4	20 48	156 35	75		7A			PIONEER MILL CO LTO
ULUPALAKUA RANCH 250	8760	02	MAKAWAO	2	20 39	156 24	1900		8A		C	ULUPALAKUA RCH CO LTO
WAHIKULI 364	A 8955	04	LAHAINA	4	20 54	156 40	580		8A			PIONEER MILL CO LTO
WAIHU CAMP 484	A 9275	03	WAILUKU	3	20 55	156 31	320		6A			WAILUKU SUGAR CO
WAIHEE VALLEY 482	A 9315	04	WAILUKU	4	20 57	156 32	300		6A			WAILUKU SUGAR CO
WAIKAMOI 449	A 9332	01	HANA	1	20 52	156 12	1200		MO			E MAUI IRR CO LTO
WAIKAMOI DAM 336	9335	01	MAKAWAO	1	20 49	156 14	4320				C	E MAUI IRR CO LTO
WAIKAPU 390	A 9376	03	WAILUKU	3	20 51	156 31	370		6A			WAILUKU SUGAR CO
WAILUA IKI 348	A 9460	01	HANA	1	20 48	156 09	2630				S	E MAUI IRR CO LTO
WAILUKU 386	A 9484	03	WAILUKU	3	20 54	156 30	180		7A			WAILUKU SUGAR COMPANY
WAIOPAI RANCH 256	A 9765	02	HANA	2	20 38	156 12	220		OC			HALEAKALA RANCH CO
ISLAND OF HAWAII												
AHUA UMI 75	A 0040	05	N KONA	5	19 38	155 47	5220		MO			W H GREENWELL RANCH
CITY OF REFUGE 27.4	0344	04	S KONA	4	19 25	155 55	15		9A			NAT HISTORICAL PARK

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ISLAND OF HAWAII												
HAIRNA 214	0840	01	HAMAKUA	1	20 06	155 28	461		8A			HONOKAA SUGAR CO
HAKALAU 142	0905	02	S HILO	2	19 54	155 08	105		7A			MAUNA KEA SUGAR CO
HALEMAUMAU 52	A 1033	03	KA'U	3	19 24	155 17	3648		M0			HAWAII NAT PARK
HALEPOHAKU 111	A 1065	02	HAMAKUA	2	19 46	155 28	9220		3P			MAUNA KEA OBSERVATORY
HAWAII VOLCNS NP HQ 54	1303	02	KA'U	2	19 26	155 16	3971	8A	8A			HA VOLCANOES NAT PK HQS
HAWI 168	A 1339	01	N KOHALA	1	20 14	155 50	580		6A			K L 80NO
HILO COUNTRY CLUB 86.6	1487	02	HAWAII	2	19 41	155 10	1600					REX WILLS II
HILO WSO AP 87	R 1492	02	S HILO	2	19 43	155 04	36	M10	M10			NATL WEATHER SERVICE
HOLUALOA 70	A 1557	04	N KONA	4	19 38	155 55	3220		M0			STATE OIV OF FORESTRY
HOLUALOA BEACH 68	A 1562	04	N KONA	4	19 37	155 59	14		7A			CAPT COOK CATTLE CO
HONAUNAU 27	1665	04	S KONA	4	19 25	155 53	940		7A			SHIGETO L TANAKA
HONOHINA 137	1701	02	N HILO	2	19 56	155 09	300		7A			MAUNA KEA SUGAR CO INC
HONOHU MAUKA 138	1960	02	S HILO	2	19 51	155 09	1100					MAUNA KEA SUGAR CO
HONUAULA 71	A 2047	04	N KONA	4	19 40	155 53	6250		M0			STATE OIV OF FORESTRY
HUALALAI 72	A 2151	04	N KONA	4	19 42	155 52	8190		M0			STATE OIV OF FORESTRY
HUEHUE 92.1	A 2156	04	N KONA	4	19 45	155 59	1960		6A			HUEHUE RANCH
KAAALA IKI 12	A 2249	03	KA'U	3	19 08	155 34	1340		WI			KA'U SUGAR CO INC
KAAHALOA 29	A 2327	04	SOUTH KONA	4	19 30	155 55	1340		8A			CAPT COOK INVESTMENT CO
KAHIKAWI MAUKA 3.8	2512	03	KA'U	3	19 08	155 46	4120					RUSSELL P SMITH
KAHUA RCH HQTRS 176.3	2600	01	HAWAII	1	20 08	155 48	3240					KAHUA RANCH COMPANY
KAINALIU 73.2	2751	04	N KONA	4	19 32	155 56	1500	7A	7A			KONA EXPERIMENT STA
KALAOA 69.22	2887	04	HAWAII	4	19 44	155 59	2000		8A			FLOYD W MC COY
KALAPANA 1 67.8	2894	02	S HILO	2	19 20	155 02	10		VAR			HAWAII VOLCANOES NAT PK
KAMAHA 2 5	A 3048	03	KA'U	3	19 02	155 40	1375		WI			PARKER RANCH KA'U OIV
KAMUELA 192.2	3077	01	S KOHALA	1	20 01	155 40	2670	6A	6A			PARKER RANCH
KAPAPALA RANCH 36	A 3300	03	KA'U	3	19 17	155 27	2140		6A			GORDON CRAN
KAPOHO BEACH 93.11	3368	02	HAWAII	1	19 30	154 49	10	8A	8A			H E MC NICHOLS
KAPOHO LANDING 93.5	A 3369	02	PUNA	2	19 30	154 52	290		VAR			DEPT OF PUBLIC WORKS
KAWAINUI LOWER 193	A 3770	01	HAMAKUA	1	20 05	155 39	1080		WI			HONOKAA SUGAR CO
KEAAU 92	3872	02	PUNA	2	19 38	155 02	285		8A			PUNA SUGAR CO
KEAIIWA CAMP 22.1	3925	03	KA'U	3	19 14	155 29	1700					KA'U SUGAR CO INC
KEALAKEKUA 3 29.11	3985	04	S KONA	4	19 31	155 55	1530					W H GREENWELL RANCH
KEANAKOLU CAMP 124.2	4098	02	HAMAKUA	2	19 55	155 21	5280					STATE OIV OF FORESTRY
KIOLAKAA A & F 6	A 4625	03	KA'U	3	19 04	155 38	1925		M0			STATE OIV OF FORESTRY
KIPA 89.2	A 4632	02	S HILO	2	19 44	155 09	1490		WI			MAUNA KEA SUGAR CO
KOHALA MISSION 175.1	4680	01	N KOHALA	1	20 14	155 48	537		7A			K LYMAN 80NO
KOIAWE LOWER 196	A 4685	01	HAMAKUA	1	20 05	155 38	720		WI			HONOKAA SUGAR CO
KONA (KAILUA) 68.3	A 4764	04	N KONA	4	19 39	156 00	30	8A	8A			CHEVRON USA
KONA VILLAGE 93.8	4765	04	N KONA	4	19 50	155 59	20		8A			KONA VILLAGE RESORT HTL
KUKAIUA 222	4815	01	HAMAKUA	1	20 02	155 21	840		6A			LAUPAHOEHOE SUGAR CO
KUKUIHALE HIC 199	4928	01	HAMAKUA	1	20 07	155 35	980		6A			HONOKAA SUGAR CO
KUKUIHALE MILL 206	A 4938	01	HAMAKUA	1	20 08	155 34	300		6A			HONOKAA SUGAR CO
KULANI CAMP 79	5011	02	S HILO	2	19 33	155 18	5170	8A	8A			ST DEPT OF SOCIAL SER
KULANI MAUKA 76	A 5018	05	N HILO	5	19 35	155 27	8300		WI			MAUNA LOA OBSERVATORY
KULANI SCHOOL SITE 78	A 5021	02	S HILO	2	19 35	155 20	5735		WI			ST DEPT OF SOCIAL SER
LALAMILO FLO OFF 191.1	5260	01	S KOHALA	1	20 01	155 41	2615					STATE DEPT OF L&N RES
LANIHAU 68.2	5330	04	N KONA	4	19 40	155 58	1530		7A			KONA EXPERIMENT STATION
LAVA TREE PARK 66.1	5460	02	PUNA	2	19 29	154 54	650					STATE DIVISION OF PARKS
MAKAHALAU 103	5761	02	HAWAII	1	19 59	155 33	3820		6A			PARKER RANCH
MANUKA 2	A 6134	03	KA'U	3	19 07	155 50	1760		WI			STATE DIVISION OF PARKS
MAUNA KEA 085 111.2	6183	02	HAWAII	2	19 49	155 28	13770	7P	7P			MAUNA KEA OBSERVATORY
MAUNA LOA SLOPE 085	6198	05	HAMAKUA	5	19 32	155 35	11150	M10	M10			MAUNA LOA OBSERVATORY
MIDDLE HOLUALOA 68.1	A 6268	04	N KONA	4	19 37	155 58	500		7A			CAPT COOK CATTLE CO
MIDDLE PEN 147.1	A 6270	01	N KOHALA	1	20 06	155 50	1380		VAR			KAHUA RANCH
MOAULA 18	A 6407	03	KA'U	3	19 11	155 30	600		WI			PARKER RANCH KA'U OIV
MOUNTAIN VIEW 91	6552	02	PUNA	2	19 33	155 07	1530	6A	6A			PUNA SUGAR CO
NAALEHU 14	A 6588	03	KA'U	3	19 04	155 35	800	8A	8A			KA'U SUGAR CO INC
NAPOOPOO 28	A 6697	04	S KONA	4	19 28	155 55	350		7A			U H KONA EXP STATION
OOKALA 223	7131	02	N HILO	2	20 01	155 17	430	6A	6A			LAUPAHOEHOE SUGAR CO
OPIHIHALE 2 24.1	7166	04	S KONA	4	19 16	155 53	1270	7A	7A			MRS LORNA TRUMAN
ORCHIO LAND EST 91.5	A 7185	02	PUNA	2	19 34	155 00	445		VAR			BOARD OF WTR SUPPLY
PAUHAU 217	7204	01	HAMAKUA	1	20 05	155 26	415		8A			HONOKAA SUGAR COMPANY
PAUULO 221	7312	01	HAMAKUA	1	20 03	155 22	800		7A			LAUPAHOEHOE SUGAR CO
PAHALA 21	A 7421	03	KA'U	3	19 12	155 29	870		6A			KA'U SUGAR CO INC
PAHOA 65	7457	02	PUNA	2	19 30	154 57	670		6A			PUNA SUGAR COMPANY
PAPAIIKOU 144.1	7711	02	S HILO	2	19 47	155 06	260		7A			MAUNA KEA SUGAR CO
PAPAIIKOU MAUKA 140.1	7721	02	S HILO	2	19 47	155 08	1285		7A			MAUNA KEA SUGAR CO

SEE REFERENCE NOTES FOLLOWING STATION INDEX

## STATION INDEX

HAWAII AND PACIFIC  
OCTOBER 1978

STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES				OBSERVER
								TEMP.	PRECIP.	EVAP.	SPECIAL (SEE NOTES)	
ISLAND OF HAWAII												
PIIHONUA 89	A 8051	02	S HILO	2	19 44	155 10	1730			MO		STATE DIV OF FORESTRY STATE DIV OF PARKS SUPT PUU HEIAU-NHS W H GREENWELL RANCH PUU WAAWAA RANCH CO MRS CAROLYN CARLSON U S COAST GUARD SHINICHI KANESHIRO BOISE CASCADES WA CONST
POHAKULOA 107	A 8063	02	HAMAKUA	2	19 45	155 32	6511				C	
PUUKOHOLA HEIAU 98.1	8422	05	HAWAII	5	20 02	155 50	140	8A	8A			
PUU LEHUA 73	A 8460	04	N KONA	4	19 34	155 49	4880		MO			
PUU WAAWAA 94.1	8555	05	N KONA	5	19 47	155 51	2520				C	
SOUTH KONA 2.31	8650	03	HAWAII	3	19 06	155 45	2650	8A	8A			
UPOLU POINT USCG 159.2	8830	01	N KOHALA	1	20 15	155 53	61	8A	2P			
WAIKAEA SCD 88.2	9025	02	S HILO	2	19 40	155 08	1050		7A			
WAIKALOA-BOIS CAS 95.8	9142	04	HAWAII	5	19 56	155 48	900		8A			

SEE REFERENCE NOTES FOLLOWING STATION INDEX



## STATION INDEX

HAWAII AND PACIFIC  
OCTOBER 1978

STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES				OBSERVER
								TEMP.	PRECIP.	EVAP.	SPECIAL (SEE NOTES)	
PACIFIC												
EAST OF 180TH MERIDIAN												
ATU'U	4060	03	TUTUILA		14 16S	170 41W	265		4P			MARIST BROTHERS
CANTON ISLAND	4101	02	PHOENIX IS		2 46N	171 43W	8	9A	9A			1TT/FEDERAL ELEC CORP
FALEASAO VILLAGE	4248	03	TA'U'MAN		14 14S	169 31W	16		8A			SOLOMULI MALU'IA
JOHNSTON IS WSO AP	R 4320	01	LINE ISLANDS		16 44N	169 31W	10	M10	M10	SP	J	NATL WEATHER SERVICE
FRENCH FRIGATE SHOALS	4401	07			23 52N	166 17W	6	8P	8A			U S COAST GUARD
MIDWAY SAND ISLAND	4490	07			28 13N	177 21W	10	M10	M10			U S NAVY
MALAELOA	4594	03	TUTUILA		14 20N	170 46W	139		7A			MARIST BROTHERS
PAGO PAGO WSO AP	R 4690	03	AMER SAMOA		14 20S	170 43W	10	M10	M10	7P	J	NATL WEATHER SERVICE
WESTERN PACIFIC ISL. NORTH OF 12 N												
AGAT	4000	03	GUAM		13 23N	144 39E	10		8A			PUBLIC UTIL AG OF GUAM
ANDERSEN AFB GUAM	\$3 4025	03	MARIANNA IS		13 35N	144 55E	624	M10	M10			AIR WEATHER SERVICE
CLARK AFB LUZON	\$3 4100	06	PHILIPPINE I		15 11N	120 33E	475	M10	M10			U S AIR FORCE
OEEOO	4156	03	GUAM		13 31N	144 51E	350		8A			PUBLIC UTIL AG OF GUAM
GUAM NAS	4226	03	MARIANNA IS		13 29N	144 48E	254	M10	M10			U S NAVY
GUAM WSMO	R 4229	03	MARIANNA IS		13 33N	144 50E	361	10A	10A	6P	J	NATL WEATHER SERVICE
INARAJAN AG STN	4275	03	GUAM		13 16N	144 45E	30		9A			AGRI EXP STN INARAJAN
INARAJAN - NASA	4278	03	GUAM		13 18N	144 44E	280	11A	11A			POWER PLANT OPERATIONS
MANGILAO	4468	03	MARIANNA IS		13 27N	144 49E	60		7A			GUAM AGRICULTURAL STA
PITI	4670	03	GUAM		13 27N	144 41E	10			C		DEPT OF PUBLIC SAFETY
ROTA	4800	03	MARIANNA IS		14 08N	145 09E	47		8A			OIST ADMINISTRATOR
SAIPAN LORAN	4860	03	MARIANNA IS		15 08N	145 42E	9	10A	10A			U S C G LORAN STATION
UMATAC	4885	03	GUAM		13 17N	144 40E	190		8A			GOVERNMENT OF GUAM OPS
WAKE ISLAND WSO AP	R 4901	01	WAKE ISLAND		19 17N	166 39E	12	M10	M10		J	NATL WEATHER SERVICE
YIGO	4950	03	GUAM		13 32N	144 53E	525		9A			ANIMAL QUARANTINE STN
CAROLINE AND MARSHALL ISLANDS												
ENEWETAK	4165	01	MARSHALL IS		11 21N	162 21E	10	6P	6P			MIO-PACIFIC MARINE LAB
FALALOP I ULITHI ATOLL	4185	02	CAROLINE IS		10 02N	139 48E	6	M10	M10			RAPHAEL B LINGESOH
KAPINGAMARANGI ATOLL	4325	01	PONAPE		1 05N	154 48E	10	M10	M10			ERSIN HAQUET
KOROR WSO	R 4351	02	CAROLINE IS		7 20N	134 29E	94	M10	M10		J	NATL WEATHER SERVICE
KWAJALEIN MISSILE RGN	R 4379	01	MARSHALL IS		8 44N	167 44E	7	12M	12M		J	KMR WEATHER SERVICE
LELE I KOSRAE	4395	02	KOSRAE		5 20N	163 02E	7	M10	M10		J	JULIAN E ROBERT
MAJURO WSO AP	R 4460	02	MARSHALL IS		7 05N	171 23E	10	M10	M10		J	NATL WEATHER SERVICE
METALANIM	4482	02	PONAPE		6 51N	158 19E	30	6P	6P			REV E A SOUCIE
MOKIL ATOLL	4490	02	PONAPE		6 41N	159 47E	27		SP			CLOSED 9/30/78
NGASANG-BABELTHUAP	4580	01	PALAU ISLAND		7 38N	134 39E	10		8A			BETHANIA SEMINARY
PONAPE WSO	R 4751	02	CAROLINE IS		6 58N	158 13E	123	M10	M10		J	NATL WEATHER SERVICE
SATAWAN ATOLL	4814	02	CAROLINE IS		5 20N	153 44E	9	M10	M10			ANTER EKO
TRUK MOEN I WSO AP	R 4851	02	CAROLINE IS		7 28N	151 51E	5	M10	M10		J	NATL WEATHER SERVICE
WOLEAI ATOLL	4911	01	CAROLINE IS		7 23N	143 55E	7	M10	M10			HASUGULIMAR/HALEYEMAI
YAP WSO AP	R 4951	02	CAROLINE IS		9 29N	138 05E	44	M10	M10	SP	J	NATL WEATHER SERVICE
CLOSED STATIONS CAROLINE AND MARSHALL ISLANDS												
MOKIL ATOLL	4490	02	PONAPE		6 41N	159 47E	27		SP			CLOSED 9/30/78
NEW STATIONS EAST OF 180TH MERIDIAN												
MALAELOA	4594	03	TUTUILA		14 20N	170 46W	139		7A			MARIST BROTHERS

SEE REFERENCE NOTES FOLLOWING STATION INDEX

# REFERENCE NOTES

HAWAII AND PACIFIC

Additional information regarding the climates of Hawaii and the Pacific Ocean may be obtained by writing to the National Climatic Center, Federal Building, Asheville, N.C. 28801, or to any Weather Service Office near you. Additional precipitation data are contained in the "HOURLY PRECIPITATION DATA HAWAII."

**DIMENSIONAL UNITS:** Unless otherwise indicated, dimensional units used in this bulletin are: Temperature in °F, precipitation and evaporation in inches and wind movement in miles. In "Supplemental Data" table directions entered in figures are tens of degrees. Resultant wind is the vector sum of wind directions and speeds divided by the number of observations.

**OBSERVATION TIME:** Data in the "Extremes" table, "Daily Precipitation" table, "Daily Temperature" table, "Evaporation and Wind" table are for the 24 hours ending at time of observation unless indicated otherwise by reference letters in the Station Index. The Station Index shows observation time in local standard time.

**EVAPORATION** is measured in the standard Weather Service-type pan of 4-foot diameter unless otherwise noted below in the "Evaporation and Wind" table. Max and Min values in the "Evaporation and Wind" table are extremes of temperature of water in pan as recorded during 24 hours ending at time of observation. Wind is the total wind movement in miles over the evaporation pan as determined by a continuous anemometer recorder located 6-8 inches above the pan.

**NORMALS** for all stations are climatological standard normals based on the period 1941-1970.

**STATION NAMES:** Hawaii state key numbers are included following station names in the several tables.

**LATE REPORTS AND CORRECTIONS** will be carried only in the June and December issues of this bulletin.

**INTERPOLATED VALUES** for monthly precipitation totals may be found in the annual issue of this publication.

**IN THE DATA TABLES THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING:**

- No record in the "Supplemental Data" table, "Daily Precipitation" table, "Evaporation and Wind" table.
- + No record in the "Monthly Summarized Data" table and the "Daily Temperature" table is indicated by no entry.
- ++ And also on an earlier date or dates.
- \* Highest observed one minute windspeed. This station is not equipped with an instrument to measure fastest mile data.
- \* Amount included in following measurement, time distribution unknown.
- † Extreme occurred at station with incomplete data which may have been exceeded.
- A The letter "A" shown following station name in "Monthly Summarized Data" table, "Daily Precipitation" table, and "Station Index," indicates amount carried in the "Total" column is for the period from last measurement of a preceding month through the last measurement of the current month. See "Daily Precipitation" table of this and previous bulletins for dates of measurement. Where gages are read only once monthly, measurements made on the first of a month are credited to the last day of the preceding month.
- B Adjusted to a full month.
- M One or more days of record missing; if average value is entered, less than 10 days record is missing. See "Daily Temperature" table for detailed daily record.
- R Amounts from recording gage.
- T Trace, an amount too small to measure.
- V Includes total for previous month.

**IN THE STATION INDEX THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING:**

- AR Observation made after rain.
- C In Special Column of Station Index indicates Recording Rain Gage Station. Hourly precipitation values are processed for special purposes, and are published later in the "Hourly Precipitation Data" bulletin. If daily amounts are published in "Monthly Summarized Data" bulletin they are from a separate non-recording gage, except where indicated by reference 'R'. Such amounts may differ from amounts published from the recording gage in the "Hourly Precipitation Data" bulletin.
- J "Supplemental Data" table.
- MO Gage read once monthly; usually on the last day.
- OC Gage readings at periods varying from a few weeks to several months.
- S Storage precipitation station. Precipitation measurements, made at irregular intervals, are published in the annual issue of this publications, beginning with the 1977 data. Prior data are found in the "Storage-Gage Precipitation Data" Bulletin, which was discontinued with the 1976 issue.
- SS Observation time is near sunset.
- VAR Observation time is variable.
- WI Gage read weekly or irregularly only.
- WM Gage read weekly and last day of month.
- # Thermometers are generally exposed in a shelter located a few feet above sod-covered ground; however, this reference indicates that the thermometers are exposed in a shelter located on the roof of a building.
- \$3 Maximum and minimum temperatures are the highest and lowest hourly readings for each day.
- # DRAINAGE CODE: KAUAI: 1-NORTHERN 2-SOUTHEASTERN 3-SOUTHWESTERN OAHU: 1-WINDWARD KOOLAU 2-HONOLULU 3-SOUTH CENTRAL 4-WESTERN 5-NORTH CENTRAL MOLOKAI: 1-(NO INTRA-ISLAND DIVISIONS) LANAI: 1-(NO INTRA-ISLAND DIVISIONS) MAUI: 1-NORTHEASTERN 2-SOUTHERN 3-CENTRAL 4-WESTERN HAWAII: 1-NORTHERN 2-EASTERN 3-SOUTHERN 4-WESTERN 5-CENTRAL

Stations appearing in the tables with no data were either missing or received too late to be included in this issue.

The Pacific includes stations in the Trust Territory of the Pacific Islands, Territory of Guam, American Samoa, and other scattered islands and atolls.

General weather conditions in the U.S. for each month are described in the CLIMATOLOGICAL DATA NATIONAL SUMMARY and STORM DATA.

Information concerning the history of changes in locations, elevations, exposure, etc., of substations through 1957 may be found in the publication "Substation History" for this State, price 40 cents. Similar information for regular National Weather Service Offices may be found in the latest annual issue of Local Climatological Data, price 20 cents. Note minimum charge and ordering instructions below.

Subscription Price: \$5.10 per year for each section including annual summary; \$8.00 additional for foreign mailing; 40¢ single copy; 30¢ annual summary. There is a minimum charge of \$2.00 for each order of shelf-stocked issues of publications. Make checks payable to Department of Commerce, NOAA; send payments and orders to: National Climatic Center, Federal Building, Asheville, N.C. 28801. ATTN: Publications

USCOMM-NOAA-ASHEVILLE, N.C. 1978-930



156°

40'

20'

155°

# HAWAII

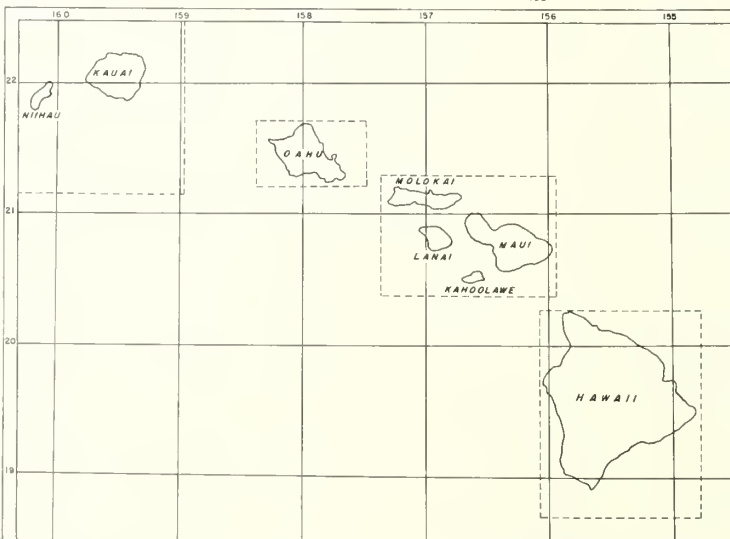
## HAWAII

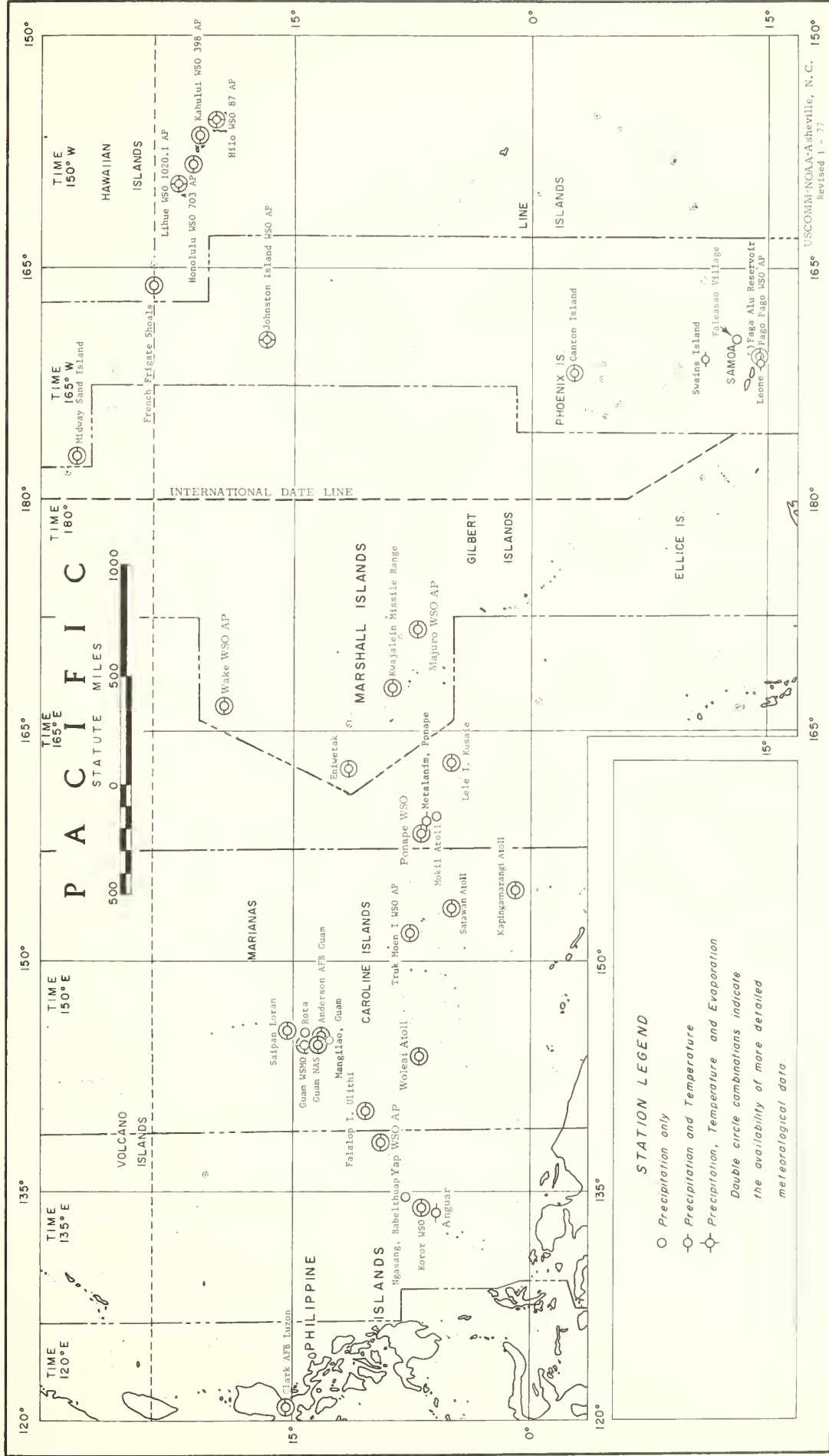
PLATE 2  
STATUTE MILES

### STATION LEGEND

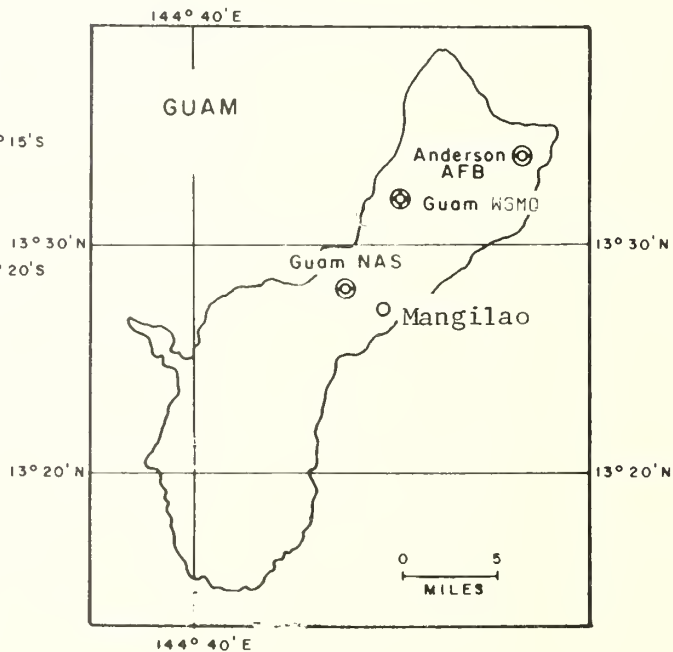
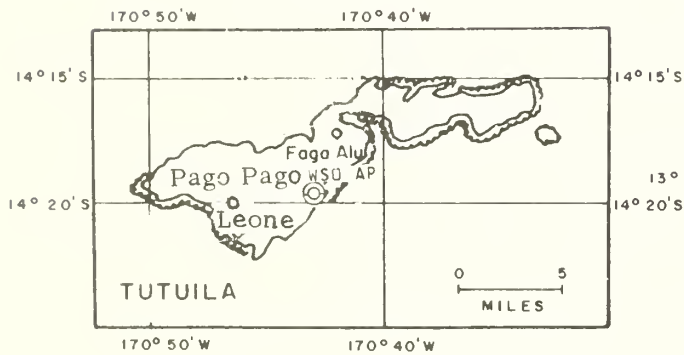
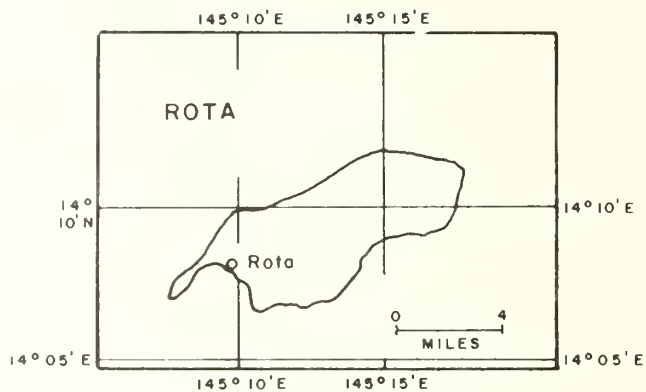
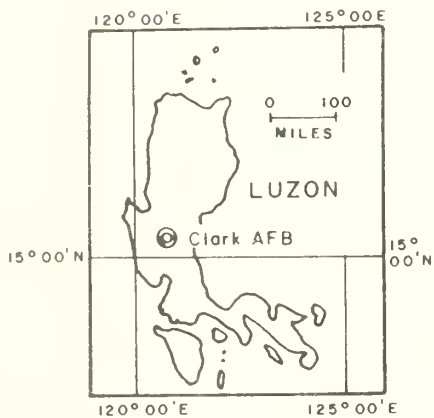
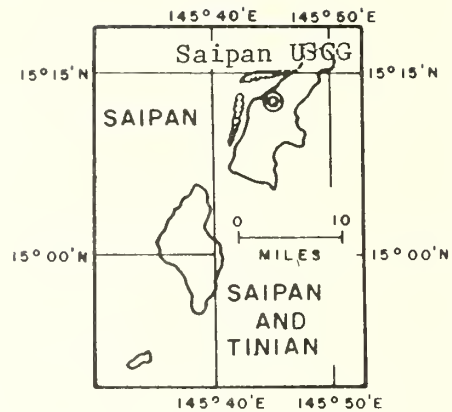
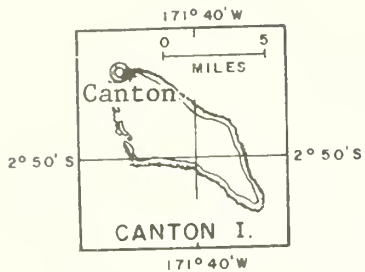
- Precipitation only
- ⊙ Precipitation, storage
- ⊙● Precipitation and Temperature
- ⊙●● Precipitation, Temperature and Evaporation
- Type of gauge: ○ Non-recording, ● Recording
- Both types

Double circle combinations indicate the availability of more detailed meteorological data  
All stations use 150th meridian time

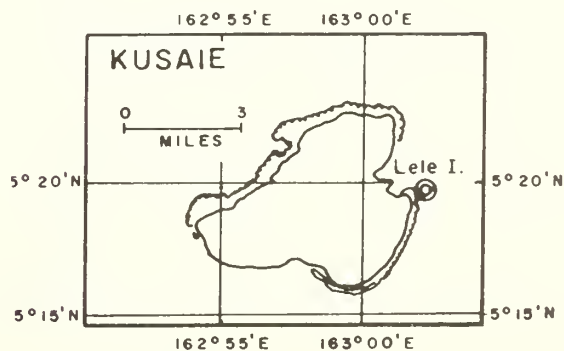
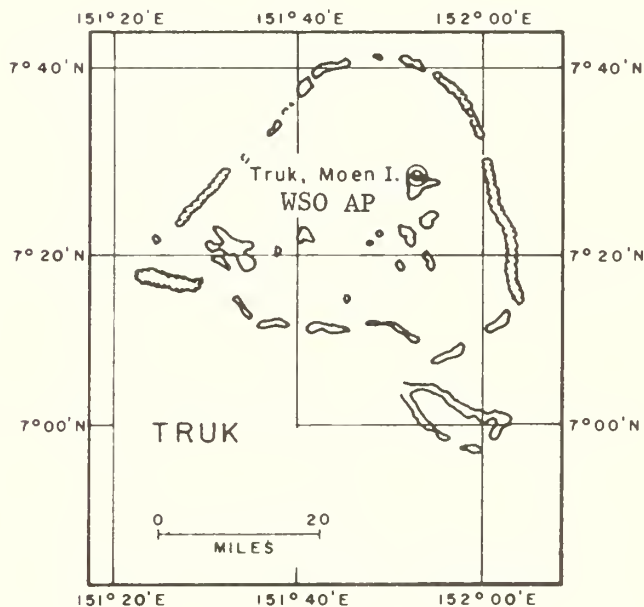
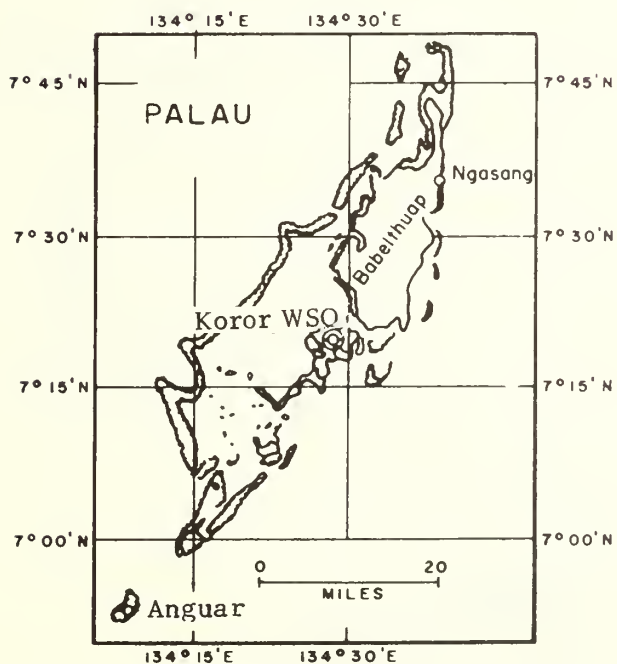
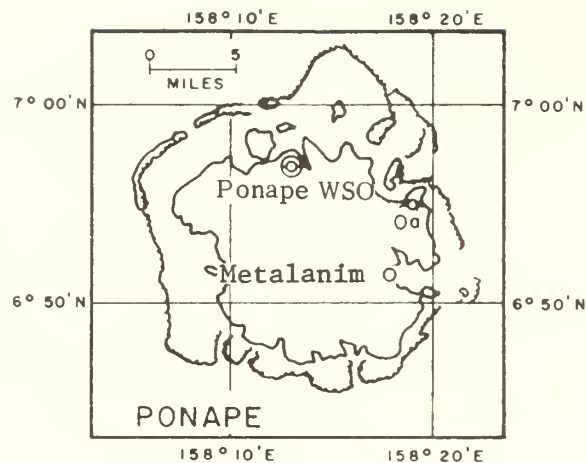
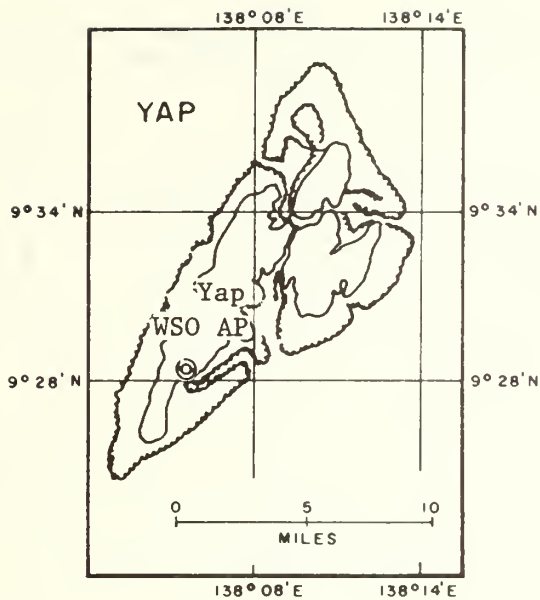




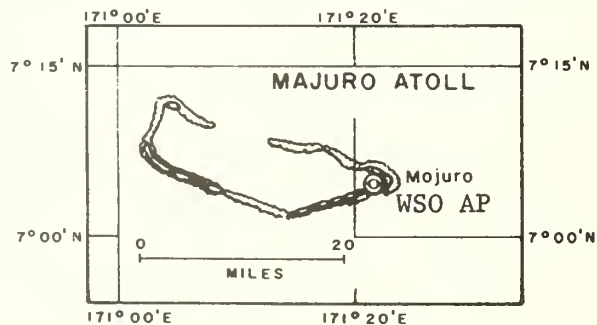
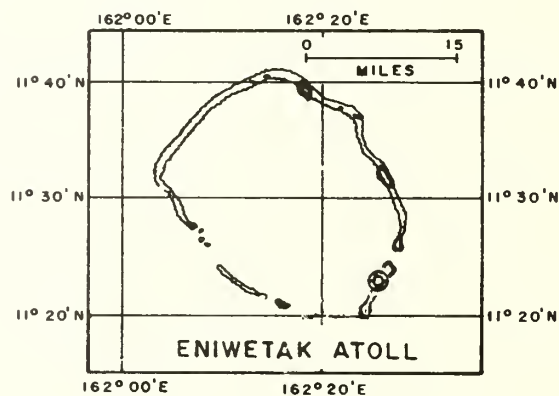
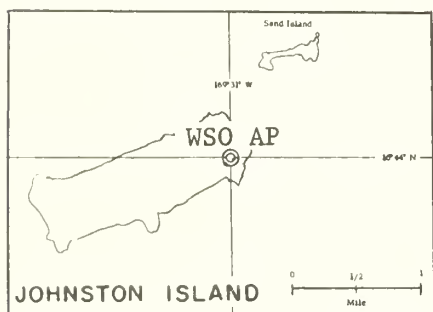
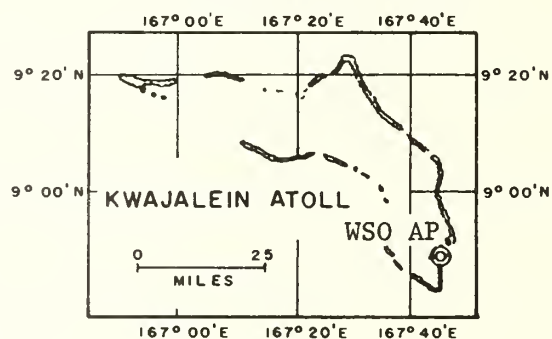
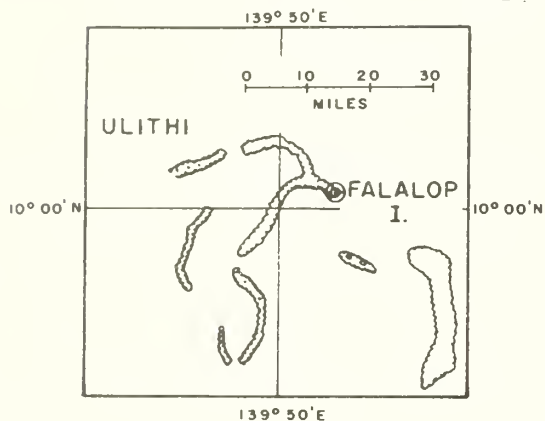
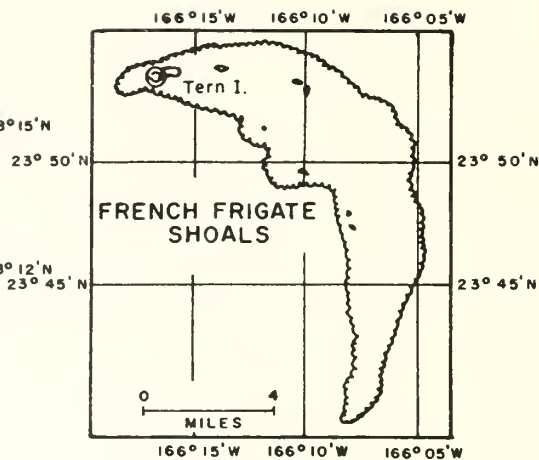
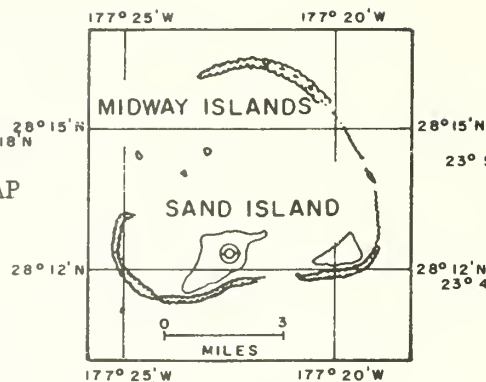
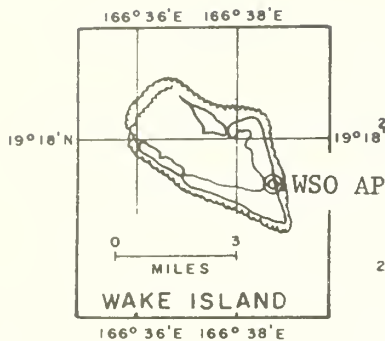




Reef



— Reef





U.S. DEPARTMENT OF COMMERCE  
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POSTAGE AND FEES PAID  
U.S. DEPARTMENT OF COMMERCE

COM 210



**THIRD CLASS**



# Climatological Data

HAWAII AND PACIFIC



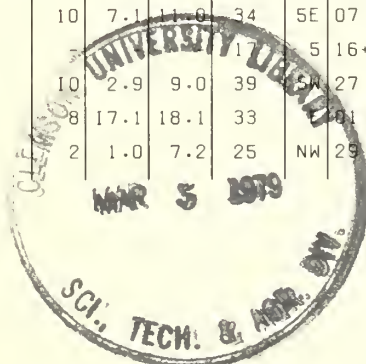
## TEMPERATURE AND PRECIPITATION EXTREMES

HAWAIIAN STATIONS ONLY

HIGHEST TEMPERATURE:	PUUKOHOLA HEIAU 98.1	HAWAII	90	DATE	22+
LOWEST TEMPERATURE:	MAUNA LOA SLOPE 085	HAWAII	28	DATE	24
GREATEST TOTAL PRECIPITATION:	KEANAE 346	MAUI	32.70		
LEAST TOTAL PRECIPITATION:	MIDDLE PEN 147.1	HAWAII	1.14		
GREATEST 1 DAY PRECIPITATION:	WAIKOLU 540	MOLOKAI	8.96	DATE	13

## SUPPLEMENTAL DATA

	WIND (SPEED - M.P.H.)						RELATIVE HUMIDITY AVERAGES- PERCENT				NUMBER OF DAYS WITH PRECIPITATION								PERCENT OF POSSIBLE SUNSHINE	AVERAGE (TENTHS) SKY COVER SUNRISE TO SUNSET
	RESULTANT DIRECTION	RESULTANT SPEED	AVERAGE	FASTEST MILE	DIRECTION OF FASTEST MILE	DATE OF FASTEST MILE	STANDARD OF TIME				TRACE	.01-.09	.10-.49	.50-.99	1.00-1.99	2.00 AND OVER	TOTAL			
							GREENWICH CIVIL													
							12	18	00	06										
GUAM W5M0	-	-	-	31	E	19+	-	82	83	91	0	8	10	3	0	3	24	27	8.7	
HILO W50 87 AP	24	0.7	4.9	19	SE	29	91	86	78	91	2	5	10	1	6	3	27	32	6.8	
HONOLULU W50 703 AP	5	5.3	8.8	27	SE	01	86	81	66	80	8	3	1	0	1	0	13	67	5.0	
JOHNSTON W50 AP	6	16.7	18.5	36	NE	03	81	81	73	79	7	6	5	2	0	0	20	69	5.0	
KAHULUI W50 398 AP	5	5.9	9.3	25	N	13	-	84	66	81	4	1	4	2	2	0	13	59	5.0	
KOROR W50	28	2.6	6.3	26	NE	29	91	-	82	80	2	4	11	2	9	0	28	43	9.3	
KWAJALEIN MISSILE RGN	-	-	-	30++	8	23	84	85	76	79	3	6	11	3	5	1	29	-	7.7	
LIHUE W50 1020.1 AP	5	4.9	9.1	24	E	20	84	86	70	82	6	4	7	1	1	0	19	55	5.9	
MAJURO W50 AP	8	7.4	9.1	28	E	22+	83	85	80	82	2	2	8	5	7	3	27	40	9.5	
PAGO PAGO W50 AP	10	7.1	11.0	34	SE	07	90	86	78	86	2	6	6	2	10	2	28	2	9.0	
PONAPE W50	7	5.0	11.0	17	SE	16+	90	-	78	81	2	3	13	5	3	1	27	29	8.6	
TRUK MOEN I. W50 AP	10	2.9	9.0	39	SE	27	87	-	78	78	1	6	13	4	3	1	28	18	9.8	
WAKE ISLAND W50 AP	8	17.1	18.1	33	SE	01	87	87	74	82	6	9	2	0	2	0	19	64	4.6	
YAP W50 AP	2	1.0	7.2	25	NW	29	89	-	79	80	1	6	10	4	4	0	25	33	9.5	



I CERTIFY THAT THIS IS AN OFFICIAL PUBLICATION OF THE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION AND IS COMPILED FROM RECORDS ON FILE AT THE NATIONAL CLIMATIC CENTER, ASHEVILLE, NORTH CAROLINA 28801.

*Daniel B. Mitchell*

DIRECTOR  
NATIONAL CLIMATIC CENTER

**noaa**

NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION / ENVIRONMENTAL DATA AND INFORMATION SERVICE / NATIONAL CLIMATIC CENTER ASHEVILLE, N.C.

## MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

HAWAII AND PACIFIC  
NOVEMBER 1978

STATION	TEMPERATURE										PRECIPITATION												
	AVERAGE MAXIMUM	AVERAGE MINIMUM	AVERAGE	DEPARTURE FROM NORMAL	HIGHEST	DATE	LOWEST	DATE	DEGREE DAYS	NO. OF DAYS				TOTAL	DEPARTURE FROM NORMAL	GREATEST DAY	DATE	SNOW, SLEET			NO. OF DAYS		
										MAX.	MIN.	TOTAL	TOTAL					MAX. DEPTH ON GROUND	DATE	10 OR MORE	50 OR MORE	100 OR MORE	
HAWAII																							
ISLAND OF KAUAI																							
ANAHOLA 1114	A	66.7M	49.1	57.9M		70	29	39	4	0	0	0	7.84	2.24	1			7	4	4			
KANALOHULU 1075										0	0	0	5.70	4.25	1			2	1				
KILAUEA POINT 1133	A									0	0	0	11.65	6.30	1			0	0				
KOLOA 936										0	0	0	3.79	1.53	1			9	2	1			
LIHUE WSO AP 1020.1	//R	79.6	67.9	73.8	- 1.4	83	6	62	5	0	0	0		- 1.84	1.53	1							
MANA 1026													4.11	1.67	3.00	1		3	2	1			
N WAILUA DITCH 1051	A												19.52	5.55	1								
PH WAINIHA 1115													14.22	2.09	4.33	1							
PUEHU RIDGE 1040													5.30	1.91	3.30	1		4	2	2			
WAIHAKA 930	A												6.74	2.87	4.75	1		2	2				
WAIHAI LOWER 1054		78.7	61.2	70.0		81	30	55	30	0	0	0	15.87	3.85	7.01	1		17	6	4			
WAIHAI 947		82.6	64.0	73.3		88	29	58	23	0	0	0	3.45	1.09	2.72	1		2	2	1			
ISLAND				68.8									8.93										
ISLAND OF OAHU																							
ALOHA STADIUM-HALAWA		81.7M	67.4M	74.6M		84	30	60	15	0	0	0	3.81	2.50	1			3	3	1			
B Y U LAIE 903.1		80.8	68.2	74.5		83	29	62	7	0	0	0	10.13	2.83	1			13	4	4			
HONOLULU OBSERV 702.2		83.2	64.8	74.0		87	27	61	20	0	0	0	4.78	2.80	1			3	2	2			
HONOLULU WSO 703 AP	R	82.1	67.2	74.7	- 1.8	86	30	63	30	0	0	0	1.55	1.22	2			2	1	1			
KANEHE MAUKA 781		79.4M	69.4	74.4M	.5	84	30	65	5	0	0	0	10.80	2.73	3.55	1		15	6	3			
KOOLAU DAM 833	A												5.64	1.85	1			9	4	2			
MANOA LYON ARBORETUM		79.6	65.5	72.6		84	24	60	5	0	0	0	13.84	3.34	14			16	7	3			
NUUANU RES 4 783													11.40	3.42	13			15	7	3			
OPAEULA 870	A	78.5	64.3	71.4	1.0	84	25	59	18	0	0	0		1.10	4.86	13		14	7	4			
PALOLO VALLEY 718	R												14.00										
WAIHOLE 837	A												19.94										
WAIHOLE 896.3		78.5M	68.7M	73.6M		81	26	63	5	0	0	0	5.88	2.65	1								
WAIHOLE 847	A	79.6	63.9	71.8	- 1.7	84	29	58	18	0	0	0	4.86	1.87	1			6	4	2			
WAIKIKI 717.2		83.5	68.3	75.9		86	29	62	4	0	0	0	4.92	3.19	1			4	2	2			
WAIMANALO EXP FM 795.1													8.78	3.56	1			9	5	2			
WAIPIHU 750	A												4.35	2.50	1			3	2	2			
ISLAND				73.8									8.31										
ISLAND OF MOLOKAI																							
MOLOKAI AP 524																							
ISLAND																							
ISLAND OF LANAI																							
LANAI CITY 672	A	75.7	63.8	69.8	.8	80	6	60	28	0	0	0	4.08	1.05	.87	3		4	0				
ISLAND				69.8									4.08										
ISLAND OF MAUI																							
HALEAKALA B E S 434	A	61.0	44.1	52.6	- 1.0	66	28	37	30	0	0	0	9.60	4.75	13			9	6	2			
HALEAKALA R S 338		80.2M	68.2M	74.2M		85	18	60	24	0	0	0	3.46	1.11	7			7	4	1			
HANA AIRPORT 355										0	0	0	17.39	5.59	12			17	8	5			
HONOKOHU 493	A												6.29	1.78	15								
KAAHAPALI AP 453.1		82.7	67.2M	75.0M		85	29	62	25	0	0	0	2.20	.80	1			4	2	0			
KAHULUI WSO 398 AP	R	83.6	68.5	76.1	.8	89	1	61	25	0	0	0	5.15	2.82	1.72	12		8	4	2			
KAILUA 446		76.9	66.2	71.6	.5	79	30	61	16	0	0	0	20.58	8.29									
KEANAE 346	A												32.70										
KIPAHULU 258													5.69	1.62	1.96	7		22	1	0			
KULA SANATORIUM 267		72.1	56.3	64.2	- .2	75	19	51	4	0	0	0	4.57	1.62	1.96	7		7	3	1			
LAHAINA 361		85.7	64.3	75.0	- .2	88	11	58	17	0	0	0	3.00	.93	1.47	7		4	3	1			
PAHA 406													8.58	5.17	2.60	12		11	5	3			
WAILUKU 386	A												8.89	6.10									
ISLAND				69.8									9.85										
ISLAND OF HAWAII																							
HAWAII VOLCNS NP HD 54	R	69.7M	54.2M	62.0M	1.4	75	12	48	9	0	0	0	21.61	10.14									
HILO WSO AP 87	A	80.6	67.6	74.1	.6	88	29	64	25	0	0	0	20.21	6.44	3.19	20		20	10	9			
HUEHUE 92.1													2.40	1.55	5			4	1	1			
KAIHALU 73.2		79.2	63.4	71.3		82	20	59	24	0	0	0	3.76	1.06	6			5	4	1			
KAPOHO BEACH 93.11		82.8	68.8	75.8		88	10	64	9	0	0	0	19.09	3.71	6			19	10	6			
KEARU 92													25.98	4.55	21								
KONA KAILUA 1 68.3	A					89	1			0	0	0	1.94	.95	3								
KUKIHALE MIC 199													23.66	7.55	12								
KULANI CAMP 79		66.0M	48.9M	57.5M		72	20	41	26	0	0	0	18.14	4.40	21			16	8	0			
PAHALA 21	A									0	0	0	17.95	4.11	7								

SEE REFERENCE NOTES FOLLOWING STATION INDEX

# MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

HAWAII AND PACIFIC  
NOVEMBER 1978

STATION	TEMPERATURE										PRECIPITATION									
	AVERAGE MAXIMUM	AVERAGE MINIMUM	AVERAGE	DEPARTURE FROM NORMAL	HIGHEST	DATE	LOWEST	DATE	DEGREE DAYS	NO. OF DAYS	TOTAL	DEPARTURE FROM NORMAL	GREATEST DAY	DATE	SNOW - SLEET			NO. OF DAYS		
															TOTAL	MAX. DEPTH ON GROUND	DATE	1.0 OR MORE	5.0 OR MORE	1.00 OR MORE
HAWAII																				
PUUKOHOLA HEI AU 98.1	86.5	68.2	77.4		90	22*	64	27*		3	1.27		.83	6	.0	0		3	1	0
SOUTH KONA 2.31	75.4	60.1	67.8		80	18	54	24*		0	8.03		1.89	6	.0	0		10	1	4
WAIKAEA SCD 88.2										0	19.75		4.19	15	.0	0		20	11	7
ISLAND			69.4								14.14				.0					

SEE REFERENCE NOTES FOLLOWING STATION INDEX

## MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

HAWAII AND PACIFIC  
NOVEMBER 1978

STATION	TEMPERATURE										PRECIPITATION													
	AVERAGE MAXIMUM	AVERAGE MINIMUM	AVERAGE	DEPARTURE FROM NORMAL	HIGHEST	DATE	LOWEST	DATE	DEGREE DAYS	NO. OF DAYS				TOTAL	DEPARTURE FROM NORMAL	GREATEST DAY	DATE	SNOW, SLEET			NO. OF DAYS			
										MAX.		MIN.						TOTAL	MAX. DEPTH ON GROUND	DATE	1.00 OR MORE	.50 OR MORE	1.00 OR MORE	
										32° OR ABOVE	32° OR BELOW	32° OR ABOVE	32° OR BELOW											
PACIFIC																								
EAST OF 180TH MERIDIAN																								
ATU'U														33.83		5.18	3				20	17	12	
CANTON ISLAND	89.3M	76.0M	82.7M		91	7*	70	28			0	0	0	.08		.04	17		0		0	0	0	
FALEASAO VILLAGE														43.78		4.67	18		0		26	20	14	
JOHNSTON IS WSO AP	82.2	75.8	79.0	- .3	84	28*	72	30			0	0	0	2.58	.28	.60	9		0		7	2	0	
FRENCH FRIGATE SHOALS																								
MIDWAY SAND ISLAND	77.3	69.0	73.2	1.3	80	16*	62	28			0	0	0	1.70	- 2.25	.92	18		0		3	1	0	
MALAELOA														35.00		4.28	10		0		22	13	11	
PAGO PAGO WSO AP	84.1	74.5	79.3	- .6	88	21	72	19*			0	0	0	25.67		3.26	29		0		20	14	12	
WESTERN PACIFIC ISL. NORTH OF 12 N																								
AGAT														13.79		4.00	3		0		16	10	4	
ANDERSEN AFB GUAM	81.6	75.9	78.8	- 1.5	85	4	73	28*			0	0	0	16.34	8.38	4.85	3		0		17	7	5	
CLARK AFB LUZON	85.6	72.7	79.2	-.2	90	19*	68	24			3	0	0	1.22	- 2.25	.37	20		0		4	0	0	
DEDEO														18.07		4.70	3		0		21	9	7	
GUAM NAS	84.6	77.1	80.9	- .1	88	12	74	2			0	0	0	16.15	7.43	3.17	2		0		19	9	6	
GUAM WSMO														14.10	5.59	3.04	2		0		16	6	3	
INARAJAN AG STN	84.2	73.5	78.9	- .3	88	5	70	30*			0	0	0	18.80		4.00	3		0		16	9	6	
INARAJAN - NASA														17.58		3.48	3		0		13	7	6	
MANGILAO	86.2	72.0	79.1		88	22*	62	10			0	0	0	13.24		4.00	3		0		17	8	5	
ROTA																								
SAIPAN LORAN														13.66		2.20	19		0		22	8	4	
UMATAO														4.21	1.19	1.84	2		0		4	2	2	
WAKE ISLAND WSO AP	85.8	75.6	81.2	-.8	88	12*	73	13*			0	0	0	10.64		2.05	19		0					
YIGO																								
CAROLINE AND MARSHALL ISLANDS																								
ENEWETAK																								
FALALOP I ULITHI ATOLL	87.7M	73.9M	80.8M				70	26				0	0	0			3.00	29		0			7	
KAPINGAMARANGI ATOLL	87.9	75.4	81.7	- .2	90	17*	72	8			6	0	0	0	17.66	6.99	1.95	18		0		22	11	9
KOROR WSO	86.7	76.5	81.6	- .1	89	25*	74	16*			0	0	0	16.16	4.70	2.63	11		0		20	9	6	
KWAJALEIN MISSILE RON																								
LELE I KOSRAE																								
MAJURO WSO AP	85.7	75.4	80.6	- .6	89	2	73	29*			0	0	0	23.56	8.18	2.90	20		0		23	15	10	
METALANIM	87.3	74.9	81.1		90	26*	71	1			5	0	0	15.88		2.00	24		0		22	13	6	
NGASANG-BABELTHUAP																								
PONAPE WSO	88.5	73.1	80.8	-.5	92	5*	69	28*			14	0	0	13.19	- 3.98	2.28	17		0		22	9	4	
SATAWAN ATOLL																								
TRUK MOEN I WSO AP	87.5	76.2	81.9	-.6	89	28*	73	15			0	0	0	12.99	1.00	2.45	30		0		21	8	4	
WOLEAI ATOLL																								
YAP WSO AP	87.1	74.8	81.0	- .5	89	22*	72	27*			0	0	0	11.09	1.06	1.51	1		0		18	8	4	

SEE REFERENCE NOTES FOLLOWING STATION INDEX

HAWAII AND PACIFIC  
 1947-1950SEE REFERENCE NOTES FOLLOWING STATION INDEX



# DAILY PRECIPITATION

HAWAII AND PACIFIC  
NOVEMBER 1978

TOTAL	DAY OF MONTH																																
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
A	2.12	x	x	x		x	x	x	.88	x	x	x		x	x	1.22	x	x	x		x	x	x		x	x	x		x	x	x	.02	
	1.60					1.60																											
A	9.60	.08	.02	.50		1.21	.17	.01		.66	.01		.01			4.75	.18	.57		.46	.01		.08	.08	.68		.01			.02	x	.06	.03
A	6.53	.07	x	.46		x	x	x	1.20	x	.72	x		3.09	.10	.57	.10	x	x		.22	x	x	x	x	x		x	x	x	x		
A	3.46	.12	.10	.50		.06	.02	.04		1.11	.02			.14	.55	T	.03				.02	.09	.58	.01	T					T	T	.07	
A	9.12	.45		.45		x	x	1.32		.35			x			3.85	1.00	1.35		.02	x		.02	.19									.12
A	14.23	.09	.07	.51		1.23	.21	T		.07			6.30	.49	2.38	1.94	.30	.01	.02		.05	.11	.40		.02								
A	17.38	.44	.06	.17		1.58	.08	.11		.65	.35		5.59	.45	2.38	.34	.03	.01	1.10		1.48	.05	.77		.42	.10	.80		.07	.02	.27	.05	
A	3.87	x	x	x	x	x	x	x	x	x	x	x	x	x	2.90	x	.15	x	x		x	x	x	x	x	x	x	x	.82	x	x	x	
A	25.80																				x	x	x	x	x	x	x	x	x	x	x	25.80	
A	6.29	.98	.03	.60		x	x	x	.20	.05	x	x	x	.80	.90	1.78	.18	x	x		x	.08	.45		x	x	x		x	.20	.04		
A	8.35	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x		x	x	x	x	x	x	x	x	x	x	x	8.35	
A	6.90						x	x	x	x	x	x	x	x	x	x	x	x	x		x	x	x	x	x	x	x	x	x	x	x	6.90	
A	2.20	.80	.04	.70		.15	.05				.02		.05	.31	.05	.01		x	x		x	x	x	.02									
A	4.60	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x		x	x	x	x	x	x	x	x	x	x	x	4.60	
A	5.15	T	.37	.18		.15	T	.14				.77	1.72	.82	1.18	T				T	.02												
A	15.99					x	x	x	x	x	x	x	x	x	x	x	x	x	x		x	x	x	x	x	x	x	x	x	x	x	15.99	
A	20.58	.41	.02	.04		x	x	x	1.53	.51	x	x	x	6.75	4.50	2.10	.21	x	x		x	1.63	1.72		.08	x	x		.67	x	.60	.35	.13
A	6.60	x	x	x		x	x	x	x	x	x	x	x	x	2.17	x		x	x		x	x	x	x	x	x	x						
A	4.89	.05	.01	.44		.53	.10	T		.24			.24	.96	.03	2.26		T			.03												
A	32.70	x	x	x		x	x	x	x	x	x	x	x	x	17.70	x	x	x	x		x	x	x	x	x	x	x	x	x	x	x	15.00	
A	1.85	.01	.05	.33		.09	.04		1.31	.02				.06	.04	.14																	
A	1.40	.09	.42			.15			.50					.06	.04	.14																	
A	5.69	.21	.15	.32		.12	.22	.51	.32	.27	.43	.26					x	x	x		.42	.21	.15		.30	.22	.35		.26	.16	.25	.28	.12
A	x	x	x	x		x	x	x	x	x	x	x	x	x	x	x	x	x	x		x	x	x	x	x	x	x		x	x	x	x	
A	4.57	.12	.05	.48		.78	.18	T		1.86	.01	T		.75	.14	.03					.05	.02	T										
A	3.00	.53	.07	.50					.02	1.47	x	x	x	.39	.02	x		x	x		x	x	x	x	x	x	x		x	x	x	4.02	
A	4.02	x	x	x		x	x	x	x	x	x	x	x	x	x	x	x	x	x		x	x	x	x	x	x	x		x	x	x		
A	2.36	.54	.50						1.10					.20	.02	x		x	x		x	x	x	x	x	x	x		x	x	x	22.00	
A	22.00					x	x	x	x	x	x	x	x	x	x	x	x	x	x		x	x	x	x	x	x	x		x	x	x		
A	4.26	.42	.62			x	x	x	.24		x	x	x	1.30	1.53	.07		x	x		x	.08											
A	11.33	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x		x	x	x	x	x	x	x		x	x	x	11.33	
A	20.95	x	x	x		x	x	x	1.14		x	x	x	2.66	x	x		x	x		x	5.58	x	x	x	x	x		x	x	x	.70	
A	12.78	6.30	x	x	x	x	x	x	x	2.85	x	x	x	x	x	1.48	x	x	x		x	x	x	2.00	x	x	x	x		x	x	x	
A	1.88	.48	.41						.80					.19																			
A	x	.57	x	.68		x	x	2.30		x	.29	x	x	5.30	x	12.30		x	.67	x	3.01	x	2.60	x	x	x	x		x	.94	x	.61	x
A	8.58	.06	.15	.45		.74	.15		.05	x	x	x	2.80	.61	1.40	1.97	.10	T	T		.20	.10											
A	7.30	x	x	x		x	x	x	x	x	x	x	x	x	x	x	x	x	x		x	x	x	x	x	x	x		x	x	x	7.30	
A	4.01	.04	.09	.40		.06		.58					.90	.99	.10	.82					.03												
A	5.19																																5.19
A	25.80	x	x	25.80		x	x	x	x	x	x	x	x	x	x	x	x	x	x		x	x	x	x	x	x	x		x	x	x	x	
A	-	.05	.50						.20					3.45	.26	.80					.09												
A	6.69	.07	.47		.36	.09	.01	.13					2.43	.87	.62	.56	T	T			.04	.04											
A	3.31	.28	.90						1.13																								
A	3.64	.39	.06	.40		x	x	x	.85	1.98			.05			.21																	.10
A	4.36	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x		x	x	x	x	x	x	x		x	x	x	4.36	
A	1.50	.42	.39						.54				.11	.15																			
A	3.71	.01	.02	.34		.56			1.76				.77	.77	.03						.08	.02											.01
A	4.27	.38	.12	.51		.10			.73				1.26	2.33	.08	.02																	
A	14.48	.33	.43		.30				.26					5.09	3.40	3.10	.09				.07												
A	17.63	.47	.45		.63	.03		.26					1.25	5.50	4.50	4.20		.08				.26											
A	24.50	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x		x	22.60	x	x	x	x	x		x	x	x	1.00	
A	8.40	.10	.13	.38		.06		.58					3.10	1.72	.43	1.81					.08												
A	8.89	.08	.02	.39		x	x	.13	.42					4.39	1.34	2.00		.03	.01		x	x	x	x	x	x	x		x	x	x	x	
A	1.68	x	x	.49		x	x	.02		.12							.15	x			x	x	x	x	x	x	x		x	x	x	x	
A	4.50	x	x	x		x	x	x	x	x	x	x	x	x	x	x	x	x	x		x	x	x	x	x	x		x	x	x	x	4.50	
A	3.52		.50	.20		.30	.94	.98	.60	T																							
A	20.95	x	x	x		x	x	x	2.61	.99	.06		6.37	.22	3.33	3.27	.21	x	2.58	.95	.02	x											

# DAILY PRECIPITATION

HAWAII AND PACIFIC  
NOVEMBER 1978

STATION	TOTAL	DAY OF MONTH																															
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
HAWAII																																	
NAALEHU 14	A	14.76	1.05	.38	2.44	x	x	2.86	2.87						.04	.37	.16		x		.80	3.32				x	x	.27					
NAPQOPBO 28		4.64	x	x	x	x	x	3.80	x	x	x	x	x	.58								x		x	x	x	x	x	.26	x	x	x	
OKALA 223		18.16			.36	2.04	.26	.81	1.19	.36				.36	.51	.03	6.05	1.35	.32	1.67	.10	.98	1.00	.02			.06	.28	.01		.40		
OPIMIHAE 2 24.1		4.38	.46	.82	.02	.09	1.58	.68	T	T				.34	.37	T	T	T	T					.01									
ORCHID LAND EST 91.5	A	29.74	x	x	3.60	x	x	x	x	x	9.81	x	x	x	x	x	x	8.80	x	x	x	x	x	x	x	7.53	x	x	x	x	x	x	
PAUKAU 217		17.42			.40	1.40	.31	1.65	.38	.22				3.52	.67	.01	2.96	3.45	.02	1.06	.08	.44	.82						.03				
PARULU 221		15.00		.01	.28	.88	.27	.67	.88	.12	T			1.83	.46	.01	4.83	1.34	.03	.87	.22	.48	1.70	T				.05	.06	T			
PAHALA 21	A	17.85	1.26	.84	3.20	x	3.01	1.35	4.11				x	x	.11	.98	.08	.49	x		x	.29	1.30				.82	T					
PAHUA 85		32.64	.52	.48	2.90	x	x	3.15	6.35				x	x	1.15	.30	2.05	3.10	.31	x	x	3.75	4.88	.31	x	x	x	2.78	.20	.11	.30		
PAPAIOU 144.1		21.17	.10	.25	1.01	x	x	1.96	2.00	.10					.70	.01	2.30	3.65	.17	x	x	4.20	3.20	.26	x	x	x	1.23	.01		.02		
PAPAIOU MAUKA 140.1		26.81	.60	.50	.99	x	x	1.88	1.88	.02			x	x	.70	.03	7.49	2.40	.04	x	x	4.40	3.19	.20	x	x	x	2.10	.11		.08		
PIIMONUA 88	A	28.20	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	28.20		
PUKOHOLA HEIAU 98.1		1.27	x	x	.10			.83	.34																								
PUU LEHUA 73	A	5.76	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	5.76		
SOUTH KONA 2.31		8.03	.02	.18	1.46	.23	.10	1.88	1.63						.67	.36	.09	1.10	.07			.16	.07										
UPOLU POINT USCG 159.2		3.10	T	.10	.14	.04	T	.26	.73				.17	.55	T	.10	.01	T	T	T	T	.53	T		.06	T	T	T	T	.41	T		
WAIKAKA SCO 88.2		19.75	.64	.55	1.59	.11	.14	2.11	1.89	.03			.32	.06	.05	.04	4.19	1.00	.15	.45	.73	1.70	2.07	.27	.02	.22	.62	.44	.32	.04		T	
WAIKALO-BOIS CAS 95.8		1.47	.11	.31	.76	x	x	.14				x	x	.05		.07								.03									

SEE REFERENCE NOTES FOLLOWING STATION INDEX

# DAILY PRECIPITATION

HAWAII AND PACIFIC  
NOVEMBER 1978

STATION	TOTAL	DAY OF MONTH																																			
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31					
PACIFIC																																					
* * *																																					
EAST OF 180TH																																					
MERIDIAN																																					
ATU U	33.83		.12	5.18		.58	.08		.57	2.60	.69		3.15	1.07	4.84		1.30	2.21	1.40		1.72	1.38	1.32		.55	.08	.01					.42	.34	.80	.09	.07	3.17
CANTON ISLAND	.08																.01					.04	.03														
FAIRBANK VILLAGE	43.78	.27	.13	.24		.17	.42		1.84	.53	.81		2.96	4.65	3.04	2.45	.67	2.54		1.13	2.41	4.67		.91	T	.01		.48	.75	1.93	2.65	3.36	1.01	.07	2.71	.97	
JOHNSTON IS WSO AP	2.58	T	.45	.10		.02		T			.60		.58	.03	.28	.06	.19	.09			T				T	.06						.01	T	T	.11		
FRENCH FRIGATE SHOALS																																					
MIDWAY SAND ISLAND	1.70	T	.02				T	T	.04	.13	.03		.01			T	.08		.18	.92					.02	.09	.06		.07	T	.02	.03					
MALAELOA	35.00		.93	2.87		.40	T		.14	.38	1.37		4.28	3.69	2.89	.24	1.29	1.82		3.18	2.97	2.99		.24	.15	T		.45	.94	.02	.13	.03	.46	3.14			
PAGO PAGO WSO AP	25.67		.10	1.57		.02		.26	.22	.73	3.72		1.99	1.23	1.34	.26	1.96	1.78		1.82	1.70	1.16		.15	.03	T		.01	.06	.71	1.44	.02	.10	T	3.26	.02	
* * *																																					
WESTERN PACIFIC ISL.																																					
NORTH OF 12 N																																					
ADAT	13.79	.30	.63	4.00		.23	.50		.16				.57	T		.20	T	2.00		.50				2.00	1.05	.08		.44		.50	.10		.53				
ANDERSEN AFB GUAM	16.34	.39	3.65	4.85					.06	T	.26		.30	.02	.13		.14	1.01	.53		T	2.09		1.35	.11	.12		T	.01	.20	.19	.04	.58	T	.30		
CLARK AFB LUZON	1.22	.34		.02									.07	.11		.09								.37	.22												
DEDEO	18.07	.26	1.35	4.70		.33	T	1.50	.22	.05	T		.20	.40	T	.60	.15	1.40		.57		2.10	1.07	.23	.42	T	.32		.47	.23	.23	1.15	.09	.03			
GUAM NAS	16.15	.62	3.17	2.74		T	2.02	.05	.06		.11		.40	.04	.35	.62	1.10	.12		.06	1.49	.41	.13	.17	.03	.13	.54		.06	T	1.47	.13	.13				
GUAM WSO	14.10	.08	3.04	2.79			.49		.08	.01	.13		.43	.10	.21	.42	.90	.31		.01	2.07		.97	.38	.07	.01	.05	.21	.08		.98		.28				
INARAJAN AG STN	18.80	.32	1.84	4.00		.21	.16	.50	.09	.12		.09	.36	.10	.58	.01	2.59					2.20		2.00	2.92					.10	.01	.64					
INARAJAN - NASA	17.58	.45	1.42	3.48		.07	.30		.46	T	T		.40	.04	2.32		.40	.04	2.32		T	2.19		2.23	2.91		.36	.04	.10	.07	.02	.60	.06				
MANGILAO	13.24	.92	1.00	4.00		.25	.03	1.95	.61	.10			.11	.20		.36	.05	1.15				.24		.60		.04		.13	.28		1.45	.17					
NOTA																																					
SAIPAN LOBAN																																					
UMATAC	13.66	.68	1.39	2.10		.25	.20	.10	.59	.28	.15		.35	.10		.37	.02	2.00		T	.10	.96		2.20	.80	T	.15	.12	.19	T	T	.10	.38	.05	.03		
WAKE ISLAND WSO AP	4.21	1.56	1.84	T		.03	.02		T	T			T			.07								T	.04		.04	.01	.01	.04	.02						
YID	10.64	x	x	x		1.90	.40	.85	x	.17		.20	.34	.40		.39	x	1.00		.15	.38		.62	2.05	.44	x	x	x	.49	x	x	.40	.79	.20			
* * *																																					
CAROLINE AND																																					
MARSHALL ISLANDS																																					
ENCLETA																																					
FALALOP I ULITHI ATOLL																																					
KAPINGMARANGI ATOLL			.52						2.00		2.10		.20		.05						1.20			.70	2.50		.57	.57	2.20	.05		.30	.50	3.00	1.93		
KOROR WSO	17.66	.47	1.27	T		1.32	1.27	1.36	.37	1.69	.03		.01	.73	.03	.40	.33				1.20		.16	.57	.27	.45	.26	1.41	.41	.39	.11	.09	1.18	1.13			
KWAJALEIN MISSILE RM	16.16		T	.43		.45	.89	.30	.12	.07	1.41		1.25	2.63	.01	.03	.08	1.70		.93	.06	.15		.78	1.86	T	.28	.40	.20	1.50	.20	.13	.25	.05	T		
LELE I KOSRAE																																					
MAJURO WSO AP	23.56		T	1.67			1.83	.23	T	.96	.85		1.21	.23		.09	.42	2.14		.54	.75	.22		.27	2.90	1.18	1.30	.17	.44	.25	2.63	.07	1.03	.98	1.20		
METALANIM	15.88		.01	T		.07	.26	.15	.26	.15	.08		1.49	.75	1.19	.84	.14	.75		.73	1.65	.85		1.08	.25	.14	.60	.02	2.00	.64	.04	1.00	.28	.42	.04		
NGASANG-BABEL THUAP																																					
PONAPE WSO	13.19			.03		.30	.27	1.12	.12	.27	.25		.79	.50	T	.27	.41	.38		1.14	2.28	.70		.77	.57	T	.17	.14	.27	.42	1.62	.06	.31	.03			
SATAHAN ATOLL																																					
TAUK MOEN I WSO AP	12.99	.05	.04			.02	.38	.33	.58		T		.29	.71	.33	.11	1.24	.44		.16	1.65	.42		1.10	.10	.65	.01	.08	.02	.22	.28	.26	.69	.38	2.46		
WOLEAI ATOLL																																					
YAP WSO AP	11.09	1.51	.11	.31		.67	.32			.42	.95		.03	.07	.40	.24	.57	T		.32	.09	.22		.01	1.11	.38	1.20	.59		1.20		.03		.06	.30		

SEE REFERENCE NOTES FOLLOWING STATION INDEX

# DAILY TEMPERATURES

HAWAII AND PACIFIC  
NOVEMBER 1978

STATION		DAY OF MONTH																															AVERAGE
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
HAWAII																																	
ISLAND OF KAUAI																																	
KANALOHULU 1075	MAX MIN	64 56	70 55	62 57		64 41	64 45	66 49	69 50	65 48	69 47	64 54	62 51	68 56	66 55	69 55	64 45	66 48	70 49	69 46	69 57	67 53	70 53	66 46	66 45	68 44	69 48	66 47	67 43	70 43	65 47	66.7 49.1	
KILAUEA POINT 1133	MAX MIN	75 65	77 68	83 65		83 65	83 64	84 59	84 59					84 68	77 70	77 68	82 71			83 68	80 73	82 71	82 70			86 70	80 70	80 69	83 70				
KOLOA LN (MAK) 940.1	MAX MIN	77 68	78 71	80 70	78 69	82 62	80 68	84 68	87 68	85 71	84 73	83 70	79 70	81 71	85 69	82 70	81 69	86 70	86 72	87 71	87 70	87 70	87 69	85 69	86 70	83 72	84 75	85 72	81 68	87 70		83.5 69.8	
LIMUE WSO AP 1020.1	MAX MIN	77 68	79 68	73 67	79 65	82 62	83 63	82 65	82 67	80 66	80 66	76 70	78 70	79 67	77 68	80 73	80 66	80 68	81 69	82 72	79 72	81 73	81 71	80 67	81 63	80 67	80 73	79 64	80 65	80 68		79.6 67.9	
NIU RIDGE 1035	MAX MIN	78 63	72 64	80 66		79 57	79 62	78 62	79 63		84 62			81 60	81 60	82 62	82 59	80 59			82 59	81 61	82 61			83 60	80 60	79 61	82 61				
WAIAMI LOWER 1054	MAX MIN	75 65	73 64	77 62	76 64	76 66	79 64	79 55	79 57	80 59	80 58	80 57	79 60	81 61	78 62	77 65	79 60	78 60	77 64	80 64	79 68	79 68	80 64	80 59	81 58	80 59	81 59	79 59	79 56	81 55		78.7 61.2	
WAIKAI 947	MAX MIN	75 67	77 66	80 68	82 59	81 61	81 61	79 66	81 66	81 66	82 67	82 66	82 66	82 66	85 64	84 63	86 63	86 63	84 64	83 66	85 65	84 64	85 58	85 60	84 60	85 62	86 64	84 62	88 61	82 65	82.6 64.0		
ISLAND OF OAHU																																	
ALOHA STADIUM-HALAWA	MAX MIN	75 69	78 69	76 69	80 68	82 69	84 68		84 65	84 67	83 68	84 67	83 69		79 68	82 60	80 68	80 67	83 62		83 71	82 72	81 72		84 65	84 55	83 69	82 66	83 66	82 65		81.7 67.4	
B Y U LAIE 903.1	MAX MIN	76 67	77 69	81 69	78 64	82 62	83 63	81 62	82 65	82 66	76 66	79 70	78 71	77 67	81 71	81 71	81 69	82 72	81 65	83 74	83 72	82 73	82 72	82 74	82 63	82 65	82 72	82 71	80 71	83 66	82 64	80.8 68.2	
HONOLULU OBSERV 702.2	MAX MIN	75 66	77 66	76 69	86 65	83 61	81 63	82 62	83 66	83 65	84 68	84 69	85 70	81 69	83 69	85 63	85 62	85 61	86 62	87 62	85 61	85 68	85 66	85 64	82 62	83 63	87 66	85 63	82 64	84 63		83.2 64.8	
HONOLULU WSO 703 AP	MAX MIN	79 70	75 69	84 68	79 66	78 63	80 65	81 64	80 66	81 66	83 68	83 68	81 68	80 67	83 70	83 68	83 64	84 63	84 63	84 70	84 72	84 71	82 72	84 68	82 64	83 63	84 70	83 67	83 65	86 63		82.1 67.2	
KANEIHE MAUKA 781	MAX MIN	76 70	80 70	75 68	81 65	78 65	81 68	80 68	82 68	83 70	82 70	77 69	77 70	75 70	73 71	76 70	81 69	81 69	81 70	81 71	81 71	80 71	79 72	79 69	83 69	81 70	81 71	79 69	76 68	84 69	79.4 69.4		
MANDA LYON ARBORETUM	MAX MIN	72 67	74 68	74 64	83 62	81 60	82 61	84 62	82 63	82 65	81 65	80 67	80 66	76 68	75 67	76 67	79 68	80 68	81 68	82 69	75 68	76 69	80 68	79 64	84 63	82 63	83 65	81 68	79 66	81 63		79.6 65.5	
OPAEULA 870	MAX MIN	80 66	79 68	77 62	76 61	79 60	80 64	80 62	81 65	80 64	74 64	75 62	72 67	73 68	77 66	76 64	76 63	78 61	78 59	80 66	79 71	80 67	82 66	81 63	81 63	84 62	77 67	80 67	80 63	82 62		78.5 64.3	
WAIALEE 896.3	MAX MIN	75 68	80 68	76 69	78 65	78 63	81 66	80 69	80 69	81 69	79 69	77 70	78 72	74 69	75 78	78 70	79 69	78 69		79 79	79 70	79 70	78 72		79 68		81 71	80 70	78 68	78 65	78.5 68.7		
WAIALUA 847	MAX MIN	75 67	79 70	75 69	78 64	76 58	78 62	81 62	84 65	81 65	80 68	74 68	76 68	72 68	75 66	80 62	82 64	81 58	78 60	80 64	80 64	82 65	82 60	82 60	84 64	82 60	82 64	82 65	83 64	84 61		79.6 63.9	
WAIKIKI 717.2	MAX MIN	80 69	78 71	76 68	85 62	83 63	82 65	84 66	84 67	84 67	85 69	84 70	84 70	82 72	84 72	84 72	84 70	83 69	82 64	86 68	85 73	85 73	85 72	85 69	84 65	86 64	85 71	85 72	86 68	85 66	85 64	83.5 68.3	
ISLAND OF MOLOKAI																																	
MOLOKAI AP 524	MAX MIN																																
ISLAND OF LANAI																																	
LANAI AIRPORT 656	MAX MIN																																
LANAI CITY 672	MAX MIN	73 63	78 70	72 66	70 62	78 62	80 67	78 64	78 64	77 63	78 61	75 65	70 66	79 67	72 66	72 66	73 65	72 65	75 66	79 66	74 64	76 64	76 61	75 61	78 60	78 60	78 65	77 62	78 60	77 61	76 61		75.7 63.8
ISLAND OF MAUI																																	
MOLEKALA R S 338	MAX MIN	61 50	63 52	56 51	60 49	60 48	63 48	56 45	57 46	60 42	59 43	62 45	62 46	60 45	59 45	62 41	60 38	60 39	62 41	61 39	61 40	60 45	61 46	63 38	61 39	60 41	65 48	65 50	66 40	62 45	62 37	61.0 44.1	
HANA AIRPORT 355	MAX MIN	83 73	83 72	76 71	79 66	74 65	81 69	75 65	80 66	81 66	83 65	81 68	81 69	79 68	80 70	78 68	81 65	85 70	77 68	80 70	77 70	77 70	81 71	81 70	82 60	82 60	82 73	81 69	80 67		80.2 68.2		
KAANAPALI AP 453.1	MAX MIN	79 69	80 73	74 70	83 66	79 65	83 67	82 68	83 67	83 67	83 66	82 65	85 70	82 71	82 70	84 70	84 63	81 65	81 67	85 67	85 68	83 68	85 64	85 64	82 62	84 67	84 67	85 65	83 64		82.7 67.2		
KAHULUI WSO 398 AP	MAX MIN	89 74	78 71	83 72	78 70	83 67	82 70	86 68	86 67	83 67	84 66	84 65	81 73	83 72	83 71	82 71	82 69	84 68	83 71	82 73	84 73	85 73	85 63	87 64	84 61	88 66	84 66	85 66	88 64		83.6 68.5		
KAILUA 446	MAX MIN	77 68	79 70	76 67	79 67	74 67	79 67	77 65	76 64	72 64	78 64	77 64	77 65	78 64	75 67	80 65	77 62	76 68	79 67	79 65	72 65	76 65	77 68	79 69	76 68	78 70	78 68	77 67	76 64		76.9 66.2		
KEAWAKAPU BEACH 260.2	MAX MIN	82 73	88 74	75 70	86 66	78 64	82 70	84 65	84 66	87 66	86 64	85 64	86 69	82 70	85 63	84 63	85 62	84 66	87 63	87 66	87 66	87 68	87 61	85 64	87 63	84 66	85 64	85 64	85 67	85 65		84.5 65.7	
KULA SANATORIUM 267	MAX MIN	73 60	74 64	74 62	74 51	65 52	73 57	74 58	73 56	72 56	71 55	73 57	72 59	70 58	72 55	72 55	72 54	73 55	70 56	72 55	72 56	72 57	72 58	72 52	71 52	73 54	71 55	72 55	74 54	70 56	72 57	72.1 56.3	
LAHAINA 361	MAX MIN	88 62	85 60	84 64	82 68	87 68	85 69	83 60	84 61	84 62	86 60	88 67	87 62	87 62	86 65	85 66	86 58	87 66	86 67	86 62	87 62	86 63	86 67	86 66	86 66	86 65	87 69	85 68	85 61	86 60		85.7 64.3	

SEE REFERENCE NOTES FOLLOWING STATION INDEX

# DAILY TEMPERATURES

HAWAII AND PACIFIC  
NOVEMBER 1978

STATION		DAY OF MONTH																															AVERAGE
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
HAWAII																																	
UH AGRI RES CNTR 324.5	MAX MIN	75 62	72 64	69 62	69 56	66 58	69 60	70 58	69 56	71 57	72 56	71 58	72 59	72 58	73 60	71 56	73 56	72 57	73 57	76 55	72 58	72 59	71 58	71 54	73 56	72 56	71 58	71 55	69 58	73 58	71.4 57.7		
ISLAND OF HAWAII																																	
HAWAII VOLCNS NP HQ 54	MAX MIN	69 59	70 60	64 58	69 56	67 59	65 58	73 51	71 48	70 50	72 51	75 54	67 56	72 54	69 56	70 56	70 52	74 55	73 54	70 55	67 55	65 53	69 55	70 53	70 54	69 54	70 51	70 52	73 49	69.7 54.2			
HILO WSO AP 87	MAX MIN	83 71	76 72	81 71	76 70	75 70	74 69	81 69	80 65	83 65	80 66	81 67	79 68	80 68	82 70	81 66	82 65	81 67	81 68	76 69	82 70	79 68	82 65	83 66	81 64	81 66	81 67	83 67	88 65	85 65	80.6 67.6		
KAINALIU 73.2	MAX MIN	82 67	81 68	75 68	76 64	76 56	76 65	74 64	79 60	76 61	79 65	81 64	81 65	81 65	80 63	80 64	80 62	80 62	79 62	82 63	81 65	81 64	77 63	80 59	80 61	79 61	79 62	81 61	80 62	79.2 63.4			
KAMUELA 192.2	MAX MIN	80 60	79 64	68 62	71 61	71 58	73 58	70 58	71 52	74 51	76 53	77 55	75 54	78 54	76 58	78 62	72 61	70 60	74 60	74 61	75 60	73 62	70 61	73 51	75 52	74 56	77 51	74 52	78 55	75 60	74.1 57.5		
KAPOHO BEACH 93.11	MAX MIN	83 74	85 76	78 70	82 70	80 69	82 70	76 70	81 67	82 64	88 68	87 69	83 71	79 68	83 70	82 69	81 67	83 70	84 68	83 71	85 69	79 68	85 68	84 66	84 68	84 67	84 66	84 65	85 67	82.8 68.8			
KONA (KAILUA) 68.3	MAX MIN	89 73	85 75	77 72	82 69	84 69	82 67	86 68	87 67	87 67	86 68	85 72	87 73	86 70	85 70	85 70	86 68	85 72	86 68	85 68	85 71	86 69	85 68	85 68	85 67	85 66	85 66	85 67	85 66	85 69	85 69		
KULANI CAMP 79	MAX MIN	69 56	69 55	69 55	69 50	69 50	60 49	69 49	68 50	68 60	70 45	65 56	65 47	66 52	64 51	65 49	64 46	68 46	67 45	72 50	63 55	60 51	61 44	64 41	65 44	65 41	64 50	64 45	67 47	69 45	66.0 48.9		
MAUNA KEA OBS 111.2	MAX MIN	51 35	41 20																														
MAUNA LOA SLOPE OBS	MAX MIN	50 40	45 38	46 35	50 37	48 40	44 34	48 35	49 36	52 37	53 35	46 36	44 35	45 34	45 33	45 32	47 30	48 33	47 30	46 34	42 35	46 33	46 29	46 28	49 30	51 35	52 32	48 32	48 32	50 34	47.4 33.8		
MOUNTAIN VIEW 91	MAX MIN	76 65	79 66	72 68	72 67	79 67	79 64	70 63	77 59	78 59	81 60	79 63	76 67	78 61	79 64	77 63	76 59	77 62	79 62	74 59	76 62	71 63	76 58	76 59	78 58	78 59	76 59	79 59	80 61	76.5 61.9			
NAALEHU 14	MAX MIN	79 67	80 68	75 66	72 65	75 63	80 64	73 65	85 64	82 59	82 59	78 63	77 65	81 63	79 67	80 65	78 63	80 63	77 63	78 62	81 63	79 63	76 68	72 66	75 63	75 64	76 66	79 64	80 64	78.0 64.1			
OOKALA 223	MAX MIN	84 75	82 72	77 71	77 67	76 68	77 67	70 67	79 65	79 66	80 67	79 68	77 67	78 65	79 68	79 67	77 65	78 67	78 67	79 67	78 68	78 69	77 68	78 67	79 67	79 66	79 66	78 66	78 66	78.2 67.3			
OPIHIHALE 2 24.1	MAX MIN	82 66	73 65	77 61	75 64	78 65	72 61	80 57	77 56	80 61	81 62	80 63	80 61	81 64	80 61	80 60	82 59	81 59	82 59	84 59	83 61	79 62	77 60	81 56	82 58	81 57	81 59	82 60	79 59	81 61	79.7 60.4		
PUUKOHOLA HEIAU 98.1	MAX MIN	89 73	87 73	87 70	79 69	87 69	83 67	79 66	85 66	86 65	85 65	87 65	89 65	89 65	88 65	90 65	85 69	87 67	87 66	90 66	89 73	87 73	87 66	90 66	85 66	86 66	85 65	87 64	87 64	86 65	86.5 68.2		
SOUTH KONA 2.31	MAX MIN	79 65	77 65	71 63	75 61	76 65	73 63	70 61	78 55	73 54	76 59	78 62	74 61	79 60	76 59	73 57	74 57	80 58	78 58	77 62	76 64	76 61	72 61	72 61	77 54	73 59	75 61	74 60	77 59	75.4 60.1			
UPOLU POINT USCG 159.2	MAX MIN	86 74	79 75	79 71	81 69	76 67	79 66	82 67	82 66	82 66	82 70	84 71	82 68	81 71	80 70	82 68	81 69	80 69	80 68	82 69	81 69	81 66	80 70	78 69	81 69	82 67	82 67	82 67	82 67	81 70	81.0 68.8		

SEE REFERENCE NOTES FOLLOWING STATION INDEX



# DAILY TEMPERATURES

HAWAII AND PACIFIC  
NOVEMBER 1978

STATION		DAY OF MONTH																															AVERAGE
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
PACIFIC																																	
• • •																																	
EAST OF 180TH MERIDIAN																																	
CANTON ISLAND	MAX MIN	89 77	89 75	91 76	89 76	90 77	91 76	89 77	88 74	88 74			90 76	90 78	90 78	89 78	90 78	89 78		89 76	88 78	89 78	89 74	89 77		89 74	89 70	89 74	90 75		89.3 76.0		
JOHNSTON IS WSO AP	MAX MIN	84 77	83 73	84 74	81 75	81 76	82 75	81 75	82 74	81 73	80 75	82 75	82 76	81 77	81 75	82 76	82 77	83 76	83 78	82 77	82 76	83 78	83 78	84 77	84 77	84 78	83 76	84 76	81 74	82 72		82.2 75.8	
FRENCH FRIGATE SHOALS	MAX MIN																																
MIDWAY SAND ISLAND	MAX MIN	77 71	77 67	78 72	79 71	78 70	80 71	80 68	78 68	76 68	79 69	78 71	78 72	80 72	80 74	78 71	80 68	78 73	74 70	78 67	74 66	77 64	79 71	79 71	76 69	77 70	76 69	73 65	72 62	75 65	76 65		77.3 69.0
PAGO PAGO WSO AP	MAX MIN	07 80	84 78	81 75	87 75	85 74	86 78	86 75	84 73	83 73	83 74	80 72	82 72	84 72	83 73	85 75	80 74	81 74	80 73	83 72	83 74	88 73	87 75	87 76	87 76	83 74	86 74	82 76	86 79	84 74	86 73		84.1 74.5
• • •																																	
WESTERN PACIFIC ISL. NORTH OF 12 N																																	
ANDERSEN AFB GUAM	MAX MIN	83 75	79 73	80 74	85 75	84 75	82 73	83 78	83 77	82 78	81 75	83 77	83 77	82 76	82 75	83 74	83 78	83 77	79 76	81 76	81 77	82 77	82 78	83 77	81 75	80 76	79 78	79 76	78 73	83 75	79 75		81.6 75.9
CLARK AFB LUZON	MAX MIN	84 75	84 75	81 75	84 75	86 72	86 73	84 73	86 73	86 73	86 75	86 73	86 72	84 73	86 73	88 73	86 75	90 73	90 73	90 75	84 75	84 72	84 72	86 68	86 70	86 72	86 70	86 70	86 70	84 70		85.6 72.7	
GUAM NAS	MAX MIN	84 78	81 74	83 76	87 78	85 77	85 77	86 78	86 78	87 78	84 76	87 77	88 78	85 76	84 76	85 76	85 79	85 78	83 77	86 77	86 78	86 79	85 78	84 76	84 78	85 78	82 77	82 78	81 75	85 76	83 76		84.6 77.1
GUAM WSO	MAX MIN	85 72	80 72	82 72	86 72	88 70	85 70	86 77	85 74	85 73	84 74	86 73	86 74	84 72	85 73	85 72	85 77	85 78	82 74	84 75	84 75	85 76	85 75	85 74	83 71	84 74	82 75	81 76	80 72	84 70	84 70		84.2 73.5
INARAJAN - NASA	MAX MIN	85 74	85 71	81 72	86 73	87 65	86 71	88 64	87 64	87 63	87 62	87 77	87 78	87 75	86 77	87 76	87 78	87 77	87 71	87 70	87 69	87 69	88 69	87 73	87 74	87 74	84 76	83 76	83 74	86 74	87 74		86.2 72.0
SAIPAN LORAN	MAX MIN																																
WAKE ISLAND WSO AP	MAX MIN	83 74	82 73	86 80	87 80	86 77	86 77	87 78	87 77	87 77	88 78	87 77	88 78	87 73	87 77	86 77	84 74	81 74	86 75	86 77	86 77	86 77	87 76	85 79	86 75	87 76	86 76	83 78	85 76	86 78	85 78		85.8 76.6
• • •																																	
CAROLINE AND MARSHALL ISLANDS																																	
ENEWETAK	MAX MIN																																
FALALOP I ULITHI ATOLL	MAX MIN																																
KAPINGAMARANGI ATOLL	MAX MIN	90 76	90 72	89 78	89 75	90 73	89 76	87 75	90 79	88 75	90 76	89 72	89 76					87 72	89 72	85 74	85 72	87 72	88 74	84 71	87 72	85 70	88 76	85 75	86 75	87 72		87.7 73.9	
KOROR WSO	MAX MIN	90 76	89 76	90 76	88 75	82 74	90 75	89 75	88 72	88 75	89 77	90 75	88 76	89 75	90 73	88 77	89 77	90 78	87 74	89 77	87 76	86 77	87 75	86 73	84 75	88 75	88 75	88 77	87 74	87 74		87.9 75.4	
KWAJALEIN MISSILE RGN	MAX MIN	89 80	89 80	89 75	88 75	86 75	87 75	87 76	87 79	86 75	85 75	81 75	87 77	89 79	88 78	86 74	83 74	87 78	88 77	87 75	82 75	87 78	87 75	86 76	89 76	87 77	87 76	87 76	87 77	88 81		86.7 76.5	
LELE I KOSRAE	MAX MIN																																
MAJURO WSO AP	MAX MIN	88 79	89 78	87 74	88 76	86 74	86 78	83 77	86 75	83 74	88 79	85 74	85 75	87 76	86 75	84 75	86 74	87 74	87 75	86 75	84 74	84 74	84 73	86 75	88 76	83 74	83 79	84 78	86 73	87 75		85.7 75.4	
METALANIM	MAX MIN	88 71	90 79	90 72	89 75	89 77	84 75	85 75	90 73	88 74	88 72	89 75	84 74	86 74	85 76	89 76	83 75	87 73	90 74	88 73	85 74	89 77	85 74	88 79	85 75	86 74	90 77	85 74	89 75	88 76		87.3 74.9	
PONAPE WSO	MAX MIN	90 70	91 71	92 73	91 75	92 78	84 73	84 72	89 71	91 69	90 73	88 73	88 72	89 69	87 73	90 75	84 74	84 74	89 72	89 73	85 73	90 76	87 74	90 77	85 75	85 69	90 77	88 74	91 69	91 75	89 74		88.5 73.1
SATAWAN ATOLL	MAX MIN																																
TRUK MOEN I WSO AP	MAX MIN	89 75	89 76	89 78	89 77	89 76	87 75	89 75	89 76	89 77	89 75	86 76	89 75	85 77	89 75	85 73	87 79	84 75	85 77	88 76	89 78	87 76	87 77	86 80	88 77	87 77	86 77	89 74	88 74	83 74		87.5 76.2	
WOLEAI ATOLL	MAX MIN																																
YAP WSO AP	MAX MIN	88 75	87 77	88 77	86 77	86 73	88 74	88 73	88 72	87 75	88 75	98 75	88 74	87 74	88 76	88 77	86 75	87 74	84 74	84 79	85 75	89 76	89 74	87 74	87 74	87 72	87 74	86 72	87 78	87 75	87 74		87.1 74.8

SEE REFERENCE NOTES FOLLOWING STATION INDEX

# EVAPORATION AND WIND

HAWAII AND PACIFIC  
NOVEMBER 1978

STATION	DAY OF MONTH																															TOTAL OR AVG.
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
HAWAII																																
ISLAND OF KAUAI																																
(TRUE W50 AP 1020-1	EVAP	-	-	•	-51	-22	-34	-28	-25	-12	-12	-13	-15	-12	-31	-18	-12	-29	-23	-27	-32	-28	-22	-31	-25	-08	-23	-22	-33	-	-	6.788
	WIND	65	203	•	171	77	109	90	94	67	80	56	75	69	146	194	211	111	94	99	244	211	191	123	82	64	102	162	153	104	73	3520
	MAX	83	81	-	83	83	83	83	83	84	83	84	84	82	83	85	86	81	82	82	81	79	80	81	86	81	82	82	81	87	81	82.6
	MIN	66	61	-	54	54	55	57	59	60	54	58	58	57	57	62	63	62	62	62	65	65	66	67	58	59	58	64	65	56	57	60.0
ISLAND OF OAHU																																
HONOLULU OBSERV 702-2	EVAP	-60	-05	-07	-15	-15	-30	-15	-16	-15	-15	-15	-15	-20	-15	-15	-30	-30	-15	-15	-30	-15	-27	-15	-15	-23	-30	-23	-22	-23		6.01
	WIND	62	32	25	51	24	20	17	17	17	24	24	31	30	21	13	19	18	15	11	23	27	17	21	31	23	21	21	18	28	20	721
	MAX	71	73	71	86	81	85	87	83	87	89	71	83	83	82	81	86	85	85	87	87	85	85	85	85	66	85	86	82	85	83	83.3
	MIN	64	64	66	62	61	63	62	63	64	65	65	65	65	66	64	62	60	61	63	65	66	66	66	64	65	63	64	65	63	63	63.7

SEE REFERENCE NOTES FOLLOWING STATION INDEX

# EVAPORATION AND WIND

HAWAII AND PACIFIC  
NOVEMBER 1978

STATION	DAY OF MONTH																															TOTAL OR AVG.
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
PACIFIC																																
• • • EAST OF 180TH MERIDIAN																																
JOHNSTON IS WSO AP	EVAP	.31	.25	.28	.38	.18	.30	.42	.28	.18	.04	.03	.49	.20	.36	.05	.30	.38	.35	.43	.22	.32	.27	.21	.16	.29	.22	.35	.26	.19	.29	7.99
	WIND	192	203	160	247	156	163	114	76	111	195	238	224	268	283	209	156	170	191	230	203	222	231	142	126	172	147	172	136	183	212	5532
PAGO PAGO WSO AP	EVAP	.37	.18	-	-	.31	.29	.23	.13	-	-	.12	.03	.06	.08	.57	-	-	-	.12	.31	.17	.26	.28	.20	-	.65	.18	.22	-	-	-
	WIND	92	135	137	45	32	117	149	235	214	159	197	144	60	157	207	171	106	62	76	96	61	94	119	120	45	30	70	115	128	94	3472
	MAX	94	93	95	90	93	95	96	84	90	85	77	83	86	82	82	83	81	82	84	85	92	90	96	95	94	90	85	90	88	93	88.4
	MIN	76	74	73	75	75	74	75	73	75	73	73	73	71	73	73	73	73	73	70	70	69	70	73	74	75	75	72	75	74	72	73.1
• • • WESTERN PACIFIC ISL. NORTH OF 12 N																																
GUAM WSMO	EVAP	.18	.34	-	.19	.20	.10	.22	.14	.18	.20	.20	.22	.26	.27	.22	.24	.21	.26	-	.12	.14	.24	.23	.17	.08	.08	.11	.07	.11	.12	5.468
	WIND	48	106	132	69	16	20	75	110	150	121	118	162	193	219	179	176	159	214	261	160	112	153	141	121	78	62	90	221	17	38	3721
	MAX	86	82	81	89	87	85	88	86	85	82	86	85	87	83	84	86	86	82	84	84	87	87	86	84	80	78	76	75	81	87	84.0
	MIN	73	74	71	72	71	70	73	71	72	70	70	70	72	72	71	71	71	73	72	73	73	71	70	70	70	71	72	71	70	71	71.3
• • • CAROLINE AND MARSHALL ISLANDS																																
YAP WSO AP	EVAP	.16	-	.23	.12	.15	.10	.17	.28	.24	.20	.18	.22	.14	.13	.22	.03	.25	.22	.05	.23	.15	.07	.19	.18	.25	.15	.13	.22	.18	.05	5.068
	WIND	107	118	79	27	85	48	35	39	72	80	61	52	63	56	53	37	39	27	139	154	73	40	34	52	27	36	37	108	71	67	1916
	MAX	88	88	90	85	80	89	89	90	88	84	89	90	86	87	90	85	88	91	83	84	95	95	89	92	89	95	95	93	94	90	89.0
	MIN	71	69	68	71	70	68	70	69	69	70	70	70	69	68	71	71	76	78	76	76	77	78	76	76	75	75	76	75	75	75	72.6

SEE REFERENCE NOTES FOLLOWING STATION INDEX

## STATION INDEX

HAWAII AND PACIFIC  
NOVEMBER 1978

STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES				OBSERVER
								TEMP.	PRECIP.	EVAP.	SPECIAL (SEE NOTES)	
HAWAII												
ISLAND OF KAUAI												
ALEXANDER RESV 983	0140	02	KOLOA	2	21 57	159 32	1610				C	MC BRYDE SUG CO LTD
ANAHOLA 1114	A 0145	01	KAWAIIHAU	1	22 08	159 18	180		7A		C	LIHUE PLANTATION CO LTD
BRYDESWOOD STA 985	A 0240	02	KOLOA	2	21 56	159 32	720		7A			MC BRYDE SUG CO LTD
EAST LAWA 934	A 0456	02	KOLOA	2	21 55	159 30	440		7A			MC BRYDE SUG CO LTD
ELEELE 927	A 0470	02	KOLOA	2	21 54	159 35	150		6A			MC BRYDE SUG CO LTD
HALAULA 1110	A 0935	01	KAWAIIHAU	1	22 07	159 19	253		7A			LIHUE PLANTATION CO LTD
HALENANAHO 1006	A 1038	02	LIHUE	2	21 58	159 26	490		8A			LIHUE PLANTATION CO LTD
HANAHANAPUNI 1055.2	1140	02	KAUAI	2	22 03	159 25	600				C	LIHUE PLANTATION CO LTD
HANALEI TUNNEL 1053	A 1170	01	KAWAIIHAU	1	22 05	159 28	1218		MO			U S GEOLOGICAL SURVEY
HUKIPO 945	2161	03	WAIIMEA	3	21 59	159 41	800		8A			KEKAHA SUGAR CO LTD
ILILIULA INTAKE 1050	A 2222	02	LIHUE	2	22 02	159 28	1050		VAR			LIHUE PLANTATION CO LTD
INTAKE WAINIHA PC 1086A	2227	01	HANALEI	1	22 09	159 34	690		WI			MC BRYDE SUG CO LTD
KANALOHULUHULU 1075	3099	03	WAIIMEA	3	22 08	159 40	3600	7A	7A		C	STATE DIVISION OF PARKS
KANEHA RESERVOIR 1092	A 3104	01	KAWAIIHAU	1	22 08	159 23	830		7A			LIHUE PLANTATION CO LTD
KAPAA STABLES 1104	3159	01	KAWAIIHAU	1	22 05	159 20	175				C	LIHUE PLANTATION CO LTD
KEALIA 1112	A 3982	01	KAWAIIHAU	1	22 06	159 19	9		7A			LIHUE PLANTATION CO LTD
KEKAHA 944	A 4272	03	WAIIMEA	3	21 58	159 43	9		8A		C	KEKAHA SUGAR CO LTD
KILAUEA 1134	A 4561	01	HANALEI	1	22 13	159 25	320		7A		C	NICK RAPOZO
KILAUEA POINT 1133	4568	01	HANALEI	1	22 14	159 24	180	7A	7A			MRS ELIZABETH MACIOLEK
KOLO 1033	4735	03	WAIIMEA	3	22 04	159 46	36		7A			KEKAHA SUGAR CO LTD
KOLOA 936	A 4742	02	KOLOA	2	21 55	159 28	240		8A			MC BRYDE SUG CO LTD
KOLOA LN (MAK) 940.1	4748	01	KAUAI	2	21 52	159 27	52	7A	7A			AUSCG LORAN STATION
KOLOA MAUKA 994	A 4750	02	KOLOA	2	21 57	159 29	640		7A			MC BRYDE SUG CO LTD
KUKUIULA 935	A 4950	02	KOLOA	2	21 54	159 30	100		6A			MC BRYDE SUG CO LTD
LIHUE VARIETY ST 10621A	A 5560	02	LIHUE	2	22 01	159 23	380		7A		C	LIHUE PLANTATION CO LTD
LIHUE 1020	A 5575	02	LIHUE	2	21 59	159 22	207		7A			LIHUE PLANTATION CO LTD
LIHUE WSO AP 1020.1	R 5580	02	LIHUE	2	21 59	159 21	103	8A	8A	7A	J	NATL WEATHER SERVICE
MAKAWELI 965	A 5864	03	WAIIMEA	3	21 55	159 38	140		7A			OLOKELE SUGAR CO
MANA 1026	6082	03	WAIIMEA	3	22 02	159 46	20		8A			KEKAHA SUGAR CO LTD
MOHIHI UPR CROSS 1083	A 6433	01	WAIIMEA	3	22 07	159 36	3500		MID			U S GEOLOGICAL SURVEY
MOLOAA 1145	A 6529	01	KAWAIIHAU	1	22 11	159 20	330		7A			THEODORE JAVELLANA JR
MOUNT WAIKALEALE 1047	R 6565	03	WAIIMEA	2	22 04	159 30	5148		MID			U S GEOLOGICAL SURVEY
NIU RIDGE 1035	6850	03	WAIIMEA	3	22 02	159 44	1250	6A	6A			KEKAHA SUGAR CO LTD
N WAILUA DITCH 1051	A 6888	02	LIHUE	2	22 04	159 28	1110		7A			LIHUE PLANTATION CO LTD
N WAILUA RIVER 1055	A 6893	02	KIHUE	2	22 04	159 26	650		MO			LIHUE PLANTATION CO LTD
PH WAINIHA 1115	8155	01	HANALEI	1	22 12	159 34	101		6A		C	MC BRYDE SUG CO LTD
PRINCEVILLE RANCH 1117	8165	01	HANALEI	1	22 13	159 29	295		9A		C	PRINCEVILLE RANCH INC
PUEHU RIDGE 1040	8205	03	WAIIMEA	3	22 01	159 42	1660		8A			KEKAHA SUGAR CO LTD
PUHI 1013	A 8217	02	LIHUE	2	21 58	159 24	329		8A			LIHUE PLANTATION CO LTD
WAIHAWA 930	A 8941	02	KOLOA	2	21 54	159 34	215		7A		C	MC BRYDE SUG CO LTD
WAIHI LOWER 1054	8958	02	LIHUE	2	22 01	159 27	565	6A	6A			LIHUE PLANTATION CO LTD
WAIHI UPPER 1052	8966	02	LIHUE	2	22 01	159 28	780		6A			LIHUE PLANTATION CO LTD
WAIHAWA 943	9253	03	WAIIMEA	3	21 59	159 43	10		8A			KEKAHA SUGAR CO LTD
WAILUA KAI 1065	A 9467	02	LIHUE	2	22 02	159 21	50		7A			LIHUE PLANTATION CO LTD
WAIIMEA 947	9629	03	WAIIMEA	3	21 58	159 41	20	8A	8A			KEKAHA SUGAR COMPANY
WEST LAWA 931	A 9955	02	KOLOA	2	21 54	159 31	210		6A			MC BRYDE SUG CO LTD
ISLAND OF OAHU												
AHUIMANU LOOP 839.12	0055	01	KOOLAUPOKO	1	21 26	157 51	320				C	DR DON MITCHELL
ALOHA STADIUM-HALAWA	0172	03	OAHU	3	21 23	157 56	40	8A	8A			ALOHA STADIUM
BERETANIA PUMPING STA	0211	02	HONOLULU	2	21 19	157 51	20		9A			BOARD OF WTR SUPPLY
B Y U LAIE 903.1	0240	01	KOOLAUPOKO	1	21 39	157 56	20	12M	12M			B Y U-HAWAII CAMPUS
CAMPBELL IND PK 702.5	0248	02	OAHU	3	21 19	158 07	10		8A			CHEVRON U S A INC
CAMP 84 807	0300	03	EWA	3	21 26	158 04	760				C	DEL MONTE CORPORATION
COCONUT ISLAND 840.1	0350	01	KOOLAUPOKO	1	21 26	157 47	15		8A			H INST MARINE BIOLOGY
DOWSETT HIGHLDS 780.8	0438	02	HONOLULU	2	21 21	157 50	565				C	J L BANNING
EWA PLANTATION 741	0507	03	EWA	3	21 21	158 02	5		7A			OAHU SUGAR COMPANY
HALAWA SHAFT 771.2	0964	02	HONOLULU	2	21 23	157 54	170				C	NWS SNS AREA II PRH
HAWAII KAI CRSE 724.19	1308	02	OAHU	2	21 18	157 39	21				C	HAWAII KAI GOLF COURSE
HELEMANO INTAKE 881	1384	05	WAIALUA	5	21 33	158 00	1274				C	WAIALUA SUGAR CO INC
HOKULOA 725.2	A 1540	03	EWA	3	21 24	158 06	2260				C	WILLIAM M KIRKPATRICK
HONOLULU OBSERV 702.2	1918	03	EWA	3	21 19	158 00	5	9A	9A	9A		NATL WEATHER SERVICE
HONOLULU WSO 703 AP	A 1919	02	HONOLULU	2	21 20	157 55	7	MID	MID		C	NATL WEATHER SERVICE
KAENA POINT 841.3	2410	04	WAIALUA	4	21 34	158 15	1240		9A			U S AIR FORCE
KAHANA 883	A 2462	01	KOOLAULOA	1	21 31	157 54	800		WI			WAIHOLE WATER CO LTD
KAHUKU 912	A 2570	01	KOOLAULOA	1	21 42	157 59	15				C	KIULIMA HOTEL

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ISLAND OF OAHU													
KAILUA FIRE STA 791.3	2683	01	KOOLAUPOKO	1	21 24	157 45	10						KAILUA FIRE STATION
KALIHI RES SITE 777	R 2960	02	HONOLULU	2	21 23	157 50	910		M10				BOARD OF WTR SUPPLY
KANEHOE MAUKA 781	3113	01	KOOLAUPOKO	1	21 25	157 49	325	7A	7A				STATE HOSPITAL
KAPALAMA 773	A 3268	02	HONOLULU	2	21 21	157 52	614		8A				KAMEHAMEHA SCHOOLS
KAWAIHAPAI 841	A 3734	05	WAIALUA	5	21 35	158 11	40		7A				WAIALUA SUGAR CO INC
KEMOO CAMP 8 855	A 4318	05	WAIALUA	5	21 33	158 05	725		7A				WAIALUA SUGAR CO INC
KOOLAU OAM 833	A 4766	05	WAIHAWA	5	21 30	157 58	1160		8A				US ARMY SCHOFIELD BRKS
LULUKU 781.7	5655	01	KOOLAUPOKO	1	21 24	157 49	240					C	NATL WEATHER SERVICE
MAKAHA PUMP 800.2	5782	04	OAHU	4	21 29	158 12	400					C	CAPITAL INVESTMENT CO
MAKAKILO 730.1	5789	03	OAHU	3	21 21	158 06	300		6A				NEAL ROOMS
MANOA 712.1	6122	02	HONOLULU	2	21 19	157 49	220		7A				CHARLES COOKE
MANOA LYON ARBORETUM	6128	02	OAHU	2	21 20	157 48	500	8A	8A				LYON ARBORETUM
MANOA TUNNEL 2 716	R 6130	02	HONOLULU	2	21 20	157 48	650		M10				BOARD OF WTR SUPPLY
MAUNAWILI 787.1	6222	01	KOOLAUPOKO	1	21 21	157 46	395					C	EXP STN H S P A
MOANALUA 770	6395	02	HONOLULU	2	21 21	157 54	20		9A				JOHN A ROXBURGH
MOUNT KAALA 844	6553	04	WAIANAE	4	21 31	158 09	4025					C	FAR
NUUANU RES 4 783	6928	02	HONOLULU	2	21 21	157 49	1048		M10				BOARD OF WTR SUPPLY
NUUANU RESERVR 5 775	A 6933	02	HONOLULU	2	21 21	157 50	410		W1				BOARD OF WTR SUPPLY
OPAEULA 870	A 7150	05	WAIALUA	5	21 34	158 02	1060	7A				C	WAIALUA SUGAR CO INC
PAIKO DR 723.4	7540	02	HONOLULU	2	21 17	157 44	10		6P				O L GRU88
PALI GOLF COURSE 788.1	7656	01	OAHU	1	21 23	157 47	480		10A				CC DEPT PKS RECREATION
PALOLO VALLEY 718	R 7664	02	HONOLULU	2	21 20	157 46	995		M10				BOARD OF WTR SUPPLY
PAUOA FLATS 784	R 7810	02	HONOLULU	2	21 21	157 48	1640		M10				BOARD OF WTR SUPPLY
PEARL COUNTRY CL 760.2	7942	03	OAHU	3	21 23	157 56	120					C	PEARL COUNTRY CL8 OF HA
PUNALUU PUMP 905.2	8314	01	KOOLAUPOKO	1	21 35	157 54	20					C	NATL WEATHER SERVICE
PUNCHBOWL CRATER 709	A 8316	02	HONOLULU	2	21 19	157 51	360		8A				NAT MEM CEMETERY
PUPUKA HEIGHTS 896.4	8342	01	WAIALUA	1	21 39	158 02	900					C	JACK N WHEELER
PUU MANAWAHUA 725.6	8500	03	OAHU	3	21 23	158 06	1690		8A				RICHARD ORVIS
TANTALUS 2 780.5	8738	02	HONOLULU	2	21 20	157 50	1325		7A				R E WHITE
UNIV OF HAWAII 713	A 8815	02	HONOLULU	2	21 18	157 49	79		8A				UNIVERSITY OF HAWAII
WAIHAWA OAM 863	8945	05	WAIHAWA	5	21 30	158 03	854					C	WAIALUA SUGAR CO INC
WAIHOLE 837	A 8964	01	KOOLAUPOKO	1	21 28	157 53	745		8A			C	WAIHOLE WATER CO LTO
WAIALAE KAHALA 715	9185	02	HONOLULU	2	21 16	157 46	10		7A				WAIALAE COUNTRY CLUB
WAIALEE 896.3	9190	01	KOOLAUPOKO	1	21 41	158 02	33	8A	8A				WAIALEE LIVESK RES FARM
WAIALUA 847	A 9195	05	WAIALUA	5	21 35	158 07	32	7A	7A			C	WAIALUA SUGAR CO INC
WAIANAE 798.2	A 9231	04	WAIANAE	4	21 27	158 11	10		7A				BEN MAYES
WAIHAWA 836	A 9261	03	EWA	3	21 28	157 56	800		M0				WAIHOLE WATER CO LTO
WAIKANE 885	A 9340	01	KOOLAUPOKO	1	21 30	157 53	760		W1				WAIHOLE WATER CO LTO
WAIKIKI 717.2	9397	02	HONOLULU	2	21 16	157 49	10	8A	8A				HONOLULU ZOO
WAILUPE VLY SCH 723.6	9500	02	HONOLULU	2	21 18	157 45	180					C	WAILUPE VALLEY SCHOOL
WAIMANALO EXP FM 795.1	9523	01	KOOLAUPOKO	1	21 20	157 43	60		7A				U H WAIMANALO EXP FARM
WAIMANALO NONOKI 795.2	9534	01	OAHU	1	21 20	157 43	120					C	WAIMANALO EXP FARM
WAIKANE 892	9593	05	WAIALUA	5	21 38	158 04	330					C	WAIALUA SUGAR CO INC
WAIKANE 750	A 9738	03	EWA	3	21 23	158 01	59		8A				WAIHOLE WATER CO LTO
WILHELMINA RISE 721	R 9980	02	HONOLULU	2	21 18	157 47	1100		M10				BOARD OF WTR SUPPLY
ISLAND OF MOLOKAI													
KALAUPAPA 563	A 2896	01	MOLOKAI	1	21 12	156 59	30		8A				KALAUPAPA SETTLEMENT
KAUNAKAKAI 536	3541	01	MOLOKAI	1	21 06	157 01	12		7A				MOLOKAI RANCH LTO
KAUNAKAKAI MAUKA 536.5	3547	01	MOLOKAI	1	21 06	157 01	70					C	MOLOKAI GENERAL HOSP
KEONELELE PENS 551	A 4394	01	MOLOKAI	1	21 12	157 12	560		VAR				MOLOKAI RANCH CO LTO
KUALAPUU 534	A 4778	01	MOLOKAI	1	21 09	157 02	825					C	OEL MONTE CORPORATION
MAUNALO 511	A 6190	01	MOLOKAI	1	21 08	157 13	1070					C	MOLOKAI RANCH CO LTO
MOLOKAI AP 524	6534	01	MOLOKAI	1	21 09	157 06	450	8A	8A				ALOHA AIRLINES
PUU O HOKU RANCH 542.1	8549	01	MOLOKAI	1	21 09	156 44	700					C	CHARLIE APIA (FOREMAN)
WAIKOLU 540	A 9404	01	MOLOKAI	1	21 08	156 55	3550		W1				MOLOKAI RANCH CO LTO
ISLAND OF LANAI													
KANEPUU 690	A 3130	01	LAHAINA	1	20 52	157 00	1650		W1				U S O A
KAUNALAPUU HARBOR 658	3461	01	LAHAINA	1	20 47	157 00	30		8A				DOLE COMPANY
LANAI AIRPORT 656	5275	01	LAHAINA	1	20 48	156 57	1300	8A	8A				HAWAIIAN AIR
LANAI CITY 672	A 5286	01	LAHAINA	1	20 50	156 55	1620	7A	7A			C	DOLE COMPANY
LANAIHALE 684	A 5301	01	LAHAINA	1	20 49	156 53	3370		W1				U S O A
MAHANA 694	A 5704	01	LAHAINA	1	20 52	156 55	1430		M0				U S O A
MALAEUA 676	A 6012	01	LAHAINA	1	20 46	156 55	1150		W1				KOELE COMPANY
WAIKAEKUA 685	A 9021	01	LAHAINA	1	20 47	156 52	2000		WM				KOELE COMPANY

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ISLAND OF MAUI													
AUWAHI 252	A 0175	02	HANA	2	20 37	156 20	2060		VAR			C	ULUPALAKUA RCH CO LTD
FIELD 46 474	0541	04	LAHAINA	4	20 59	156 38	1050						MAUI LAND-PINEAPPLE CO
HAELAAU 477	A 0790	04	LAHAINA	4	20 57	156 36	2980		MO			C	MAUI LAND-PINEAPPLE CO
HALEAKALA B E 5 434	A 0995	01	MAKAWAO	1	20 51	156 18	2100		7A				U OF H AGRIC EXP STA
HALEAKALA RANCH 432	A 0999	01	MAKAWAO	1	20 50	156 19	1850		8A			C	HALEAKALA RANCH CO
HOLEAKALA R 5 338	1004	02	MAKAWAO	2	20 46	156 15	7030	8A	8A				HALEAKALA NAT PARK
HALIIMAIL 423	A 1075	01	MAKAWAO	1	20 52	156 21	1070		3A			C	MAUI LAND-PINEAPPLE CO
HAMAKUPOKO 485	1086	01	MAKAWAO	1	20 55	156 21	320		5A				HAWAIIAN COM & SUG CO
HANA 354	1122	01	HANA	1	20 45	155 59	120					C	HARRY HASEGAWA
HANA AIRPORT 355	1125	01	HANA	1	20 48	156 01	61	8A	8A				ROYAL HAWAIIAN AIRLINES
HOLUA CABIN 259.5	A 1552	02	MAKAWAO	2	20 45	156 13	6930		MO			C	HALEAKALA NATL PARK RGS
HONOKOHU 480	A 1882	04	LAHAINA	4	20 58	156 36	870		MO				MAUI LAND-PINEAPPLE CO
HONOKOHU 493	A 1887	04	LAHAINA	4	21 00	156 39	135		6A			C	MAUI LAND-PINEAPPLE CO
HONOLUA FIELD 49 494	A 1914	04	LAHAINA	4	21 01	156 38	125		MO				MAUI LAND-PINEAPPLE CO
HONOMANU GULCH 341	A 1935	01	MAKAWAO	1	20 47	156 14	6280		MO			C	HALEAKALA RANCH CO
KAAHAPALI AP 453.1	2307	04	LAHAINA	4	20 56	156 42	8	8A	8A				AMFAC PROPERTIES INC
KAHAKULOA MAUKA 482.3	2453	03	WAILUKU	4	20 59	156 33	650					C	EDWARD CHANG
KAHOMA INTAKE 374	A 2552	04	LAHAINA	4	20 54	156 38	2000		MO				PIONEER MILL CO LTD
KAHULUI W50 398 AP	R 2572	03	WAILUKU	3	20 54	156 26	48	MID	MID			C J	NATL WEATHER SERVICE
KAILIILI 436	A 2630	01	MAKAWAO	1	20 51	156 16	2520		MO				E MAUI IRR CO LTD
KAILUA 446	2679	01	MAKAWAO	1	20 54	156 13	700	7A	7A			C	E MAUI IRR CO LTD
KAUULA INTAKE 375	A 3433	04	LAHAINA	4	20 53	156 38	1585		WI				PIONEER MILL CO LTD
KAUPO RANCH HOUSE 259	3576	02	HANA	2	20 39	156 08	1020					C	KAUPO RANCH CO
KEAHUA 410	3910	03	MAKAWAO	3	20 52	156 23	480		5A				HAWAIIAN COM & SUG CO
KEANAE 346	A 4091	01	HANA	1	20 50	156 10	980		MO			C	E MAUI IRR CO LTD
KEAWAKAPU BEACH 260.2	4193	02	MAKAWAO	2	20 42	156 27	20	8A	8A				ALLEN L CORELL
KIHEI 311	4489	03	WAILUKU	3	20 47	156 27	90		7A			C	HAWAIIAN COM & SUG CO
KIPAHULU 258	4634	01	HANA	1	20 39	156 04	260		7A				HANA RANCH-KIPAHULU SEC
KUKUI 380	A 4887	04	LAHAINA	4	20 54	156 35	5788		MO			C	MAUI LAND-PINEAPPLE CO
KULA SANATORIUM 267	5006	02	MAKAWAO	2	20 42	156 22	3004	7A	7A				KULA SANATORIUM
LAHAINA 361	5177	04	LAHAINA	4	20 53	156 41	45	7A	7A			C	PIONEER MILL CO LTD
LAUNIUPOKO INTAKE 376 A	5404	04	LAHAINA	4	20 51	156 37	1280		WI				PIONEER MILL CO LTD
LAUNIUPOKO VILLAGE 372A	5408	04	LAHAINA	4	20 51	156 39	220		7A			C	PIONEER MILL CO LTD
LUPI UPPER 442	A 5665	01	MAKAWAO	1	20 53	156 15	1240		MO				E MAUI IRR CO LTD
MAHINAHINA 466	A 5715	04	LAHAINA	4	20 57	156 40	715		7A			C	PIONEER MILL CO LTD
MOKUPEA 475	A 6521	04	LAHAINA	4	20 59	156 37	1290		MO				MAUI LAND-PINEAPPLE CO
NAKALELE FIELD 60 497 A	6645	04	LAHAINA	4	21 02	156 36	340		VAR			C	MAUI LAND-PINEAPPLE CO
OLINDA 332	A 7040	01	MAKAWAO	1	20 48	156 17	4127		VAR				E MAUI IRR CO LTD
OWOWALU 296.1	7059	04	LAHAINA	4	20 49	156 37	20		7A			C	PIONEER MILL CO LTD
PAAKEA 350	7194	01	HANA	1	20 49	156 07	1260		VAR				E MAUI IRR CO LTD
PAIA 406	7566	01	WAILUKU	1	20 55	156 23	170		6A			C	HAWAIIAN COM & SUG CO
PANILEIHULU 259.2	A 7674	02	HANA	2	20 41	156 08	3570		MO				KAUPO RANCH CO
PEAHI 488.6	7952	01	MAUI	1	20 54	156 17	830					C	BERNARD RUPLINGER
POHAKA BRIDGE 307.2 A	8060	03	WAILUKU	3	20 49	156 31	167		6A				WAILUKU SUGAR CO
POLIPOLI SPRINGS 267.2A	8070	02	MAKAWAO	2	20 41	156 20	6150		VAR			C	STATE DIV OF FORESTRY
PUGHOKAMORA 2 343	A 8336	01	HANA	1	20 50	156 13	2980		MO				E MAUI IRR CO LTD
PUUNENE 396	8543	03	WAILUKU	3	20 53	156 27	60		7A			C	HAWAIIAN COM & SUG CO
PUU PAKI 352	A 8553	01	HANA	1	20 46	156 03	2160						E MAUI IRR CO LTD
SPRECKELSVILLE 400.2	8688	03	WAILUKU	3	20 54	156 25	85		8A			C	HAWAIIAN COM & SUG CO
TWIN GATES 261.3	A 8742	03	MAKAWAO	3	20 46	156 23	1310						KAONOULU RANCH
UH AGRI RES CNTR 324.5	8743	02	MAUI	2	20 46	156 20	3050	12M	7A			C	UH MAUI AGRI RESCH CNTR
UKULELE 333	A 8744	01	MAKAWAO	1	20 48	156 15	5230		MO				HALEAKALA RANCH CO
UKUMEHAME 301	A 8750	04	LAHAINA	4	20 48	156 35	75		7A			C	PIONEER MILL CO LTD
ULUPALAKUA RANCH 250	8760	02	MAKAWAO	2	20 39	156 24	1900		8A				ULUPALAKUA RCH CO LTD
WAHIKULI 364	A 8955	04	LAHAINA	4	20 54	156 40	580		8A			C	PIONEER MILL CO LTD
WAIHEU CAMP 484	A 9275	03	WAILUKU	3	20 55	156 31	320		6A				WAILUKU SUGAR CO
WAIHEE VALLEY 482	A 9315	04	WAILUKU	4	20 57	156 32	300		6A			C	WAILUKU SUGAR CO
WAIKAMOI 449	A 9332	01	HANA	1	20 52	156 12	1200		MO				E MAUI IRR CO LTD
WAIKAMOI DAM 336	9335	01	MAKAWAO	1	20 49	156 14	4320					C	E MAUI IRR CO LTD
WAIKAPU 390	A 9376	03	WAILUKU	3	20 51	156 31	370		6A				WAILUKU SUGAR CO
WAILUA IKI 348	A 9460	01	HANA	1	20 48	156 09	2630					C	E MAUI IRR CO LTD
WAILUKU 386	A 9484	03	WAILUKU	3	20 54	156 30	180		7A				WAILUKU SUGAR COMPANY
WAIOPAI RANCH 256	A 9765	02	HANA	2	20 38	156 12	220		OC			C	HALEAKALA RANCH CO
ISLAND OF HAWAII													
AHUA UMI 75	A 0040	05	N KONA	5	19 38	155 47	5220		MO			C	W H GREENWELL RANCH
CITY OF REFUGE 27.4	0344	04	S KONA	4	19 25	155 55	15		9A				NAT HISTORICAL PARK

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ISLAND OF HAWAII												
HAINA 214	0840	01	HAMAKUA	1	20 06	155 28	461		8A			HONOKAA SUGAR CO
HAKALAU 142	0905	02	5 HILO	2	19 54	155 08	105		7A			MAUNA KEA SUGAR CO
HALEMAUMAU 52	A 1033	03	KA'U	3	19 24	155 17	3648		VAR			HAWAII NAT PARK
HALEPOHAKU 111	A 1065	02	HAMAKUA	2	19 46	155 28	9220		3P			MAUNA KEA OBSERVATORY
HAWAII VOLCNS NP HQ 54	1303	02	KA'U	2	19 26	155 16	3971	8A	8A		C	HA VOLCANOES NAT PK HQS
HAWI 168	A 1339	01	N KOHALA	1	20 14	155 50	580		6A		C	K L 80ND
HILO COUNTRY CLUB 86.6	1487	02	HAWAII	2	19 41	155 10	1600				C	REX WILLS II
HILO W50 AP 87	R 1492	02	5 HILO	2	19 43	155 04	36	M10	M10		C	NATL WEATHER SERVICE
HOLUALOA 70	A 1557	04	N KONA	4	19 38	155 55	3220		M0			STATE DIV OF FORESTRY
HOLUALOA BEACH 68	A 1562	04	N KONA	4	19 37	155 59	14		W1			CAPT COOK CATTLE CO
HONAUNAU 27	1665	04	5 KONA	4	19 25	155 53	940		7A			SHIGETO L TANAKA
HONOHINA 137	1701	02	N HILO	2	19 56	155 09	300		7A			MAUNA KEA SUGAR CO INC
HONOMU MAUKA 138	1960	02	5 HILO	2	19 51	155 09	1100				C	MAUNA KEA SUGAR CO
HONUAULA 71	A 2047	04	N KONA	4	19 40	155 53	6250		M0			STATE DIV OF FORESTRY
HUALALAI 72	A 2151	04	N KONA	4	19 42	155 52	8190		M0			STATE DIV OF FORESTRY
HUEHUE 92.1	A 2156	04	N KONA	4	19 45	155 59	1960		7A			HUEHUE RANCH
KAAALA IKI 12	A 2249	03	KA'U	3	19 08	155 34	1340		W1			KA'U SUGAR CO INC
KAAWALOA 29	A 2327	04	SOUTH KONA	4	19 30	155 55	1340		8A			OILLINGHAM INV CORP
KAHIAWAI MAUKA 3.8	2512	03	KA'U	3	19 08	155 46	4120				C	RUSSELL P SMITH
KAHUA RCH HQTRS 176.3	2600	01	HAWAII	1	20 08	155 48	3240				C	KAHUA RANCH COMPANY
KAINALIU 73.2	2751	04	N KONA	4	19 32	155 56	1500	7A	7A			KONA EXPERIMENT STA
KALAOA 69.22	2887	04	HAWAII	4	19 44	155 59	2000		8A			FLOYD W MC COY
KALAPANA 1 67.8	2894	02	5 HILO	2	19 20	155 02	10		VAR			HAWAII VOLCANOES NAT PK
KAMAOKA 2 5	A 3048	03	KA'U	3	19 02	155 40	1375		W1			PARKER RANCH KA'U DIV
KAMUELA 192.2	3077	01	5 KOHALA	1	20 01	155 40	2670	6A	6A			PARKER RANCH
KAPAPALA RANCH 36	A 3300	03	KA'U	3	19 17	155 27	2140		6A			GORDON CRAN
KAPOHO BEACH 93.11	3368	02	HAWAII	1	19 30	154 49	10	8A	8A			H E MC NICHOLS
KAPOHO LANDING 93.5	A 3369	02	PUNA	2	19 30	154 52	290		VAR			DEPT OF PUBLIC WORKS
KAWAINUI LOWER 193	A 3770	01	HAMAKUA	1	20 05	155 39	1080		W1			HONOKAA SUGAR CO
KEAAU 92	3872	02	PUNA	2	19 38	155 02	285		8A			PUNA SUGAR CO
KEAIIWA CAMP 22.1	3925	03	KA'U	3	19 14	155 29	1700				C	KA'U SUGAR CO INC
KEALAKEUA 3 29.11	3985	04	5 KONA	4	19 31	155 55	1530				C	W H GREENWELL RANCH
KEANAKOLU CAMP 124.2	4098	02	HAMAKUA	2	19 55	155 21	5280				C	STATE DIV OF FORESTRY
KIOLAKAA A & F 6	A 4625	03	KA'U	3	19 04	155 38	1925		M0			STATE DIV OF FORESTRY
KIPA 89.2	A 4632	02	5 HILO	2	19 44	155 09	1490		W1			MAUNA KEA SUGAR CO
KOHALA MISSION 175.1	4680	01	N KOHALA	1	20 14	155 48	537		7A			K LYMAN 80ND
KOIAWE LOWER 196	A 4685	01	HAMAKUA	1	20 05	155 38	720		W1			HONOKAA SUGAR CO
KONA (KAILUA) 68.3	A 4764	04	N KONA	4	19 39	156 00	30	8A	8A		C	CHEVRON USA
KONA VILLAGE 93.8	4765	04	N KONA	4	19 50	155 59	20		8A			KONA VILLAGE RESORT HTL
KUKAIIAU 222	4815	01	HAMAKUA	1	20 02	155 21	840		6A			LAUPAHOEHOE SUGAR CO
KUKUIHALE HIC 199	4928	01	HAMAKUA	1	20 07	155 35	980		6A			HONOKAA SUGAR CO
KUKUIHALE MILL 206	A 4938	01	HAMAKUA	1	20 08	155 34	300		6A			HONOKAA SUGAR CO
KULANI CAMP 79	5011	02	5 HILO	2	19 33	155 18	5170	8A	8A			ST DEPT OF SOCIAL SER
KULANI MAUKA 76	A 5018	05	N HILO	5	19 35	155 27	8300		W1			MAUNA LOA OBSERVATORY
KULANI SCHOOL SITE 78	A 5021	02	5 HILO	2	19 35	155 20	5735		W1			ST DEPT OF SOCIAL SER
LALAMILLO FLD OFF 191.1	5260	01	5 KOHALA	1	20 01	155 41	2615				C	STATE DEPT OF L&N RES
LANIHAW 68.2	5330	04	N KONA	4	19 40	155 58	1530		7A			KONA EXPERIMENT STATION
LAVA TREE PARK 66.1	5460	02	PUNA	2	19 29	154 54	650				C	STATE DIVISION OF PARKS
MAKAHALAU 103	5761	02	HAWAII	1	19 59	155 33	3820		6A			PARKER RANCH
MANUKA 2	A 6134	03	KA'U	3	19 07	155 50	1760		8A			STATE DIVISION OF PARKS
MAUNA KEA 085 111.2	6183	02	HAWAII	2	19 49	155 28	13770	7P	7P			MAUNA KEA OBSERVATORY
MAUNA LOA SLOPE 085	6198	05	HAMAKUA	5	19 32	155 35	11150	M10	M10			MAUNA LOA OBSERVATORY
MIDDLE HOLUALOA 68.1	A 6268	04	N KONA	4	19 37	155 58	500		7A			CAPT COOK CATTLE CO
MIDDLE PEN 147.1	A 6270	01	N KOHALA	1	20 06	155 50	1380		VAR			KAHUA RANCH
MOAULA 18	A 6407	03	KA'U	3	19 11	155 30	600		W1			PARKER RANCH KA'U DIV
MOUNTAIN VIEW 91	6552	02	PUNA	2	19 33	155 07	1530	6A	6A			PUNA SUGAR CO
NAALEHU 14	A 6588	03	KA'U	3	19 04	155 35	800	8A	8A			KA'U SUGAR CO INC
NAPOOPOO 28	A 6597	04	5 KONA	4	19 28	155 55	350		7A			U H KONA EXP STATION
OOKALA 223	7131	02	N HILO	2	20 01	155 17	430	6A	6A		C	LAUPAHOEHOE SUGAR CO
OPIHIHALE 2 24.1	7166	04	5 KONA	4	19 16	155 53	1270	7A	7A			MRS LORNA TRUMAN
ORCHID LAND EST 91.5	A 7185	02	PUNA	2	19 34	155 00	445		VAR			BOARD OF WTR SUPPLY
PARAHU 217	7204	01	HAMAKUA	1	20 05	155 26	415		8A		C	HONOKAA SUGAR COMPANY
PARUULO 221	7312	01	HAMAKUA	1	20 03	155 22	800		7A			LAUPAHOEHOE SUGAR CO
PAHALA 21	A 7421	03	KA'U	3	19 12	155 29	870		6A			KA'U SUGAR CO INC
PAHOA 65	7457	02	PUNA	2	19 30	154 57	670		6A			PUNA SUGAR COMPANY
PAPAIIKOU 144.1	7711	02	5 HILO	2	19 47	155 06	260		7A			MAUNA KEA SUGAR CO
PAPAIIKOU MAUKA 140.1	7721	02	5 HILO	2	19 47	155 08	1285		7A			MAUNA KEA SUGAR CO

SEE REFERENCE NOTES FOLLOWING STATION INDEX

## STATION INDEX

HAWAII AND PACIFIC  
NOVEMBER 1978

STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES				OBSERVER
								TEMP.	PRECIP.	EVAP.	SPECIAL (SEE NOTES)	
ISLAND OF HAWAII												
PIIHONUA 89	A 8051	02	S HILO	2	19 44	155 10	1730		MO			STATE DIV OF FORESTRY STATE DIV OF PARKS SUPT PUU HEIAU-NHS W H GREENWELL RANCH PUU WAAWAA RANCH CO MRS CAROLYN CARLSON U S COAST GUARD SHINICHI KANESHIRO BOISE CASCADES WA CONST
POHAKULOA 107	A 8063	02	HAMAKUA	2	19 45	155 32	6511				C	
PUUKOHOLA HEIAU 98.1	8422	05	HAWAII	5	20 02	155 50	140	8A	8A			
PUU LEHUA 73	A 8460	04	N KONA	4	19 34	155 49	4880		MO			
PUU WAAWAA 94.1	8555	05	N KONA	5	19 47	155 51	2520				C	
SOUTH KONA 2.31	8650	03	HAWAII	3	19 06	155 45	2650	8A	8A			
UPOLU POINT USCG 159.2	8830	01	N KOHALA	1	20 15	155 53	61	8A	2P			
WAIKAE 50 88.2	9025	02	S HILO	2	19 40	155 08	1050		7A			
WAIKALOA-8015 CAS 95.8	9142	04	HAWAII	5	19 56	155 48	900		8A			

SEE REFERENCE NOTES FOLLOWING STATION INDEX

## STATION INDEX

HAWAII AND PACIFIC  
NOVEMBER 1978

STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES				OBSERVER
								TEMP.	PRECIP.	EVAP.	SPECIAL (SEE NOTES)	
PACIFIC												
EAST OF 180TH MERIDIAN												
ATU'U	4060	03	TUTUILA		14 16S	170 41W	265		4P			MARIST BROTHERS
CANTON ISLAND	4101	02	PHOENIX IS		2 46N	171 43W	8	9A	9A			ITT/FEDERAL ELEC CORP
FALEASAO VILLAGE	4248	03	TA'U'MAN		14 14S	169 31W	16		8A			SOLOMULI MALU'IA
JOHNSTON IS WSO AP	R 4320	01	LINE ISLANDS		16 44N	169 31W	10	M10	M10	SP	J	NATL WEATHER SERVICE
FRENCH FRIGATE SHOALS	4401	07			23 52N	166 17W	6	8P	8A			U S COAST GUARD
MIDWAY SAND ISLAND	4490	07			28 13N	177 21W	10	M10	M10			U S NAVY
MALAELOA	4594	03	TUTUILA		14 20N	170 46W	139		7A			MARIST BROTHERS
PAGO PAGO WSO AP	R 4690	03	AMER SAMOA		14 20S	170 43W	10	M10	M10	7P	J	NATL WEATHER SERVICE
WESTERN PACIFIC ISL. NORTH OF 12 N												
AGAT	4000	03	GUAM		13 23N	144 39E	10		8A			PUBLIC UTIL AG OF GUAM
ANDERSEN AFB GUAM	\$3 4025	03	MARIANNA IS		13 35N	144 55E	624	M10	M10			AIR WEATHER SERVICE
CLARK AFB LUZON	\$3 4100	06	PHILIPPINE I		15 11N	120 33E	475	M10	M10			U S AIR FORCE
DEDEDO	4156	03	GUAM		13 31N	144 51E	350		8A			PUBLIC UTIL AG OF GUAM
GUAM NAS	4226	03	MARIANNA IS		13 29N	144 48E	254	M10	M10			U S NAVY
GUAM WSMO	R 4229	03	MARIANNA IS		13 33N	144 50E	361	10A	10A	6P	J	NATL WEATHER SERVICE
INARAJAN AG STN	4275	03	GUAM		13 16N	144 45E	30		9A			AGRI EXP STN INARAJAN
INARAJAN - NASA	4278	03	GUAM		13 18N	144 44E	280	11A	11A			POWER PLANT OPERATIONS
MANGILAO	4468	03	MARIANNA IS		13 27N	144 49E	60		7A			GUAM AGRICULTURAL STA
PITI	4670	03	GUAM		13 27N	144 41E	10					DEPT OF PUBLIC SAFETY
ROTA	4800	03	MARIANNA IS		14 08N	145 09E	47		8A			OIST ADMINISTRATOR
SAIPAN LORAN	4860	03	MARIANNA IS		15 08N	145 42E	9	10A	10A			U S C G LORAN STATION
UMATAC	4885	03	GUAM		13 17N	144 40E	190		8A			GOVERNMENT OF GUAM OPS
WAKE ISLAND WSO AP	R 4901	01	WAKE ISLAND		19 17N	166 39E	12	M10	M10		J	NATL WEATHER SERVICE
YIGO	4950	03	GUAM		13 32N	144 53E	525		9A			ANIMAL QUARANTINE STN
CAROLINE AND MARSHALL ISLANDS												
ENEWETAK	4165	01	MARSHALL IS		11 21N	162 21E	10	6P	6P			MIO-PACIFIC MARINE LAB
FALALOP I ULITHI ATOLL	4185	02	CAROLINE IS		10 02N	139 48E	6	M10	M10			RAPHAEL B LINGESOH
KAPINGAMARANGI ATOLL	4325	01	PONAPE		1 05N	154 48E	10	M10	M10			ERSIN HAQUET
KOROR WSO	R 4351	02	CAROLINE IS		7 20N	134 29E	94	M10	M10		J	NATL WEATHER SERVICE
KWAJALEIN MISSILE CGN	R 4375	01	MARSHALL IS		8 44N	167 44E	7	12M	12M		J	KMR WEATHER SERVICE
LELE I KOSRAE	4395	02	KOSRAE		5 20N	163 02E	7	M10	M10			JULIAN E ROBERT
MAJURO WSO AP	R 4460	02	MARSHALL IS		7 05N	171 23E	10	M10	M10		J	NATL WEATHER SERVICE
METALANIM	4482	02	PONAPE		6 51N	158 19E	30	6P	6P			REV E A SOUCIE
NGASANG-8A8ELTHUAP	4580	01	PALAU ISLAND		7 38N	134 39E	10		8A			BETHANIA SEMINARY
PONAPE WSO	R 4751	02	CAROLINE IS		6 58N	158 13E	123	M10	M10		J	NATL WEATHER SERVICE
SATAWAN ATOLL	4814	02	CAROLINE IS		5 20N	153 44E	9	M10	M10			ANTER EKO
TRUK MOEN I WSO AP	R 4851	02	CAROLINE IS		7 28N	151 51E	5	M10	M10		J	NATL WEATHER SERVICE
WOLEAI ATOLL	4911	01	CAROLINE IS		7 23N	143 55E	7	M10	M10			HASUGULIMAR/HALEYEMAI
YAP WSO AP	R 4951	02	CAROLINE IS		9 29N	138 05E	44	M10	M10	SP	J	NATL WEATHER SERVICE

SEE REFERENCE NOTES FOLLOWING STATION INDEX



Additional information regarding the climates of Hawaii and the Pacific Ocean may be obtained by writing to the National Climatic Center, Federal Building, Asheville, N.C. 28801, or to any Weather Service Office near you. Additional precipitation data are contained in the "HOURLY PRECIPITATION DATA HAWAII."

**DIMENSIONAL UNITS:** Unless otherwise indicated, dimensional units used in this bulletin are: Temperature in °F, precipitation and evaporation in inches and wind movement in miles. In "Supplemental Data" table directions entered in figures are tens of degrees. Resultant wind is the vector sum of wind directions and speeds divided by the number of observations.

**OBSERVATION TIME:** Data in the "Extremes" table, "Daily Precipitation" table, "Daily Temperature" table, "Evaporation and Wind" table are for the 24 hours ending at time of observation unless indicated otherwise by reference letters in the Station Index. The Station Index shows observation time in local standard time.

**EVAPORATION** is measured in the standard Weather Service-type pan of 4-foot diameter unless otherwise noted below in the "Evaporation and Wind" table. Max and Min values in the "Evaporation and Wind" table are extremes of temperature of water in pan as recorded during 24 hours ending at time of observation. Wind is the total wind movement in miles over the evaporation pan as determined by a continuous anemometer recorder located 6-8 inches above the pan.

**NDRMALS** for all stations are climatological standard normals based on the period 1941-1970.

**STATION NAMES:** Hawaii state key numbers are included following station names in the several tables.

**LATE REPORTS AND CORRECTIONS** will be carried only in the June and December issues of this bulletin.

**INTERPOLATED VALUES** for monthly precipitation totals may be found in the annual issue of this publication.

**IN THE DATA TABLES THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING:**

- No record in the "Supplemental Data" table, "Daily Precipitation" table, "Evaporation and Wind" table.
- + No record in the "Monthly Summarized Data" table and the "Daily Temperature" table is indicated by no entry.
- ++ And also on an earlier date or dates.
- ++ Highest observed one minute windspeed. This station is not equipped with an instrument to measure fastest mile data.
- \* Amount included in following measurement, time distribution unknown.
- ‡ Extreme occurred at station with incomplete data which may have been exceeded.
- A The letter "A" shown following station name in "Monthly Summarized Data" table, "Daily Precipitation" table, and "Station Index," indicates amount carried in the "Total" column is for the period from last measurement of a preceding month through the last measurement of the current month. See "Daily Precipitation" table of this and previous bulletins for dates of measurement. Where gages are read only once monthly, measurements made on the first of a month are credited to the last day of the preceding month.
- B Adjusted to a full month.
- M One or more days of record missing; if average value is entered, less than 10 days record is missing. See "Daily Temperature" table for detailed daily record.
- R Amounts from recording gage.
- T Trace, an amount too small to measure.
- V Includes total for previous month.

**IN THE STATION INDEX THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING:**

- AR Observation made after rain.
- C In Special Column of Station Index indicates Recording Rain Gage Station. Hourly precipitation values are processed for special purposes, and are published later in the "Hourly Precipitation Data" bulletin. If daily amounts are published in "Monthly Summarized Data" bulletin they are from a separate non-recording gage, except where indicated by reference 'R'. Such amounts may differ from amounts published from the recording gage in the "Hourly Precipitation Data" bulletin.
- J "Supplemental Data" table.
- MD Gage read once monthly; usually on the last day.
- OC Gage readings at periods varying from a few weeks to several months.
- S Storage precipitation station. Precipitation measurements, made at irregular intervals, are published in the annual issue of this publications, beginning with the 1977 data. Prior data are found in the "Storage-Gage Precipitation Data" Bulletin, which was discontinued with the 1976 issue.
- SS Observation time is near sunset.
- VAR Observation time is variable.
- WI Gage read weekly or irregularly only.
- WM Gage read weekly and last day of month.
- # Thermometers are generally exposed in a shelter located a few feet above sod-covered ground; however, this reference indicates that the thermometers are exposed in a shelter located on the roof of a building.
- \$3 Maximum and minimum temperatures are the highest and lowest hourly readings for each day.
- ‡ DRAINAGE CODE: KAUAI: 1-NORTHERN 2-SOUTHEASTERN 3-SOUTHWESTERN DAHU: 1-WINDWARD KODLAU 2-HONOLULU 3-SOUTH CENTRAL 4-WESTERN 5-NORTH CENTRAL MDLOKAI: 1-(ND INTRA-ISLAND DIVISIONS) LANAI: 1-(ND INTRA-ISLAND DIVISIONS) MAUI: 1-NORTHEASTERN 2-SOUTHERN 3-CENTRAL 4-WESTERN HAWAII: 1-NORTHERN 2-EASTERN 3-SOUTHERN 4-WESTERN 5-CENTRAL

Stations appearing in the tables with no data were either missing or received too late to be included in this issue.

The Pacific includes stations in the Trust Territory of the Pacific Islands, Territory of Guam, American Samoa, and other scattered islands and atolls.

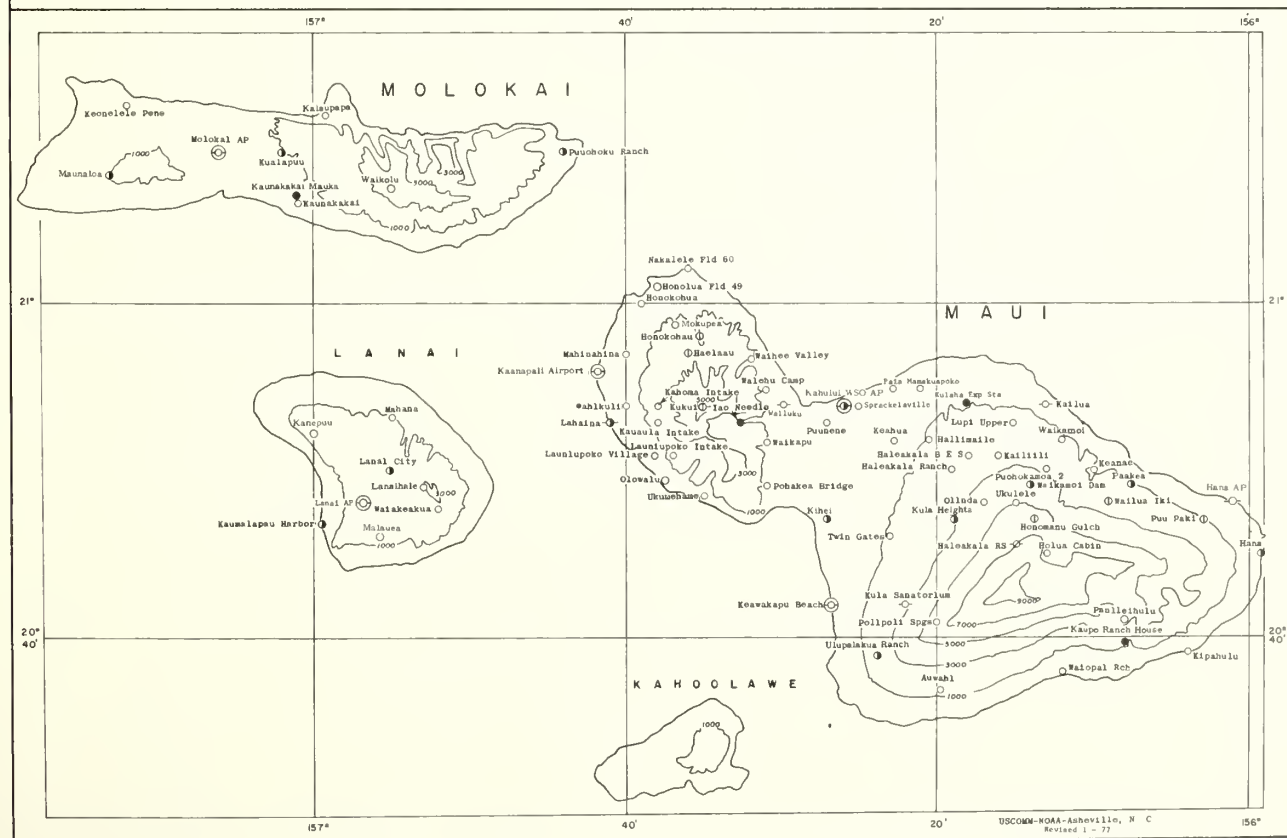
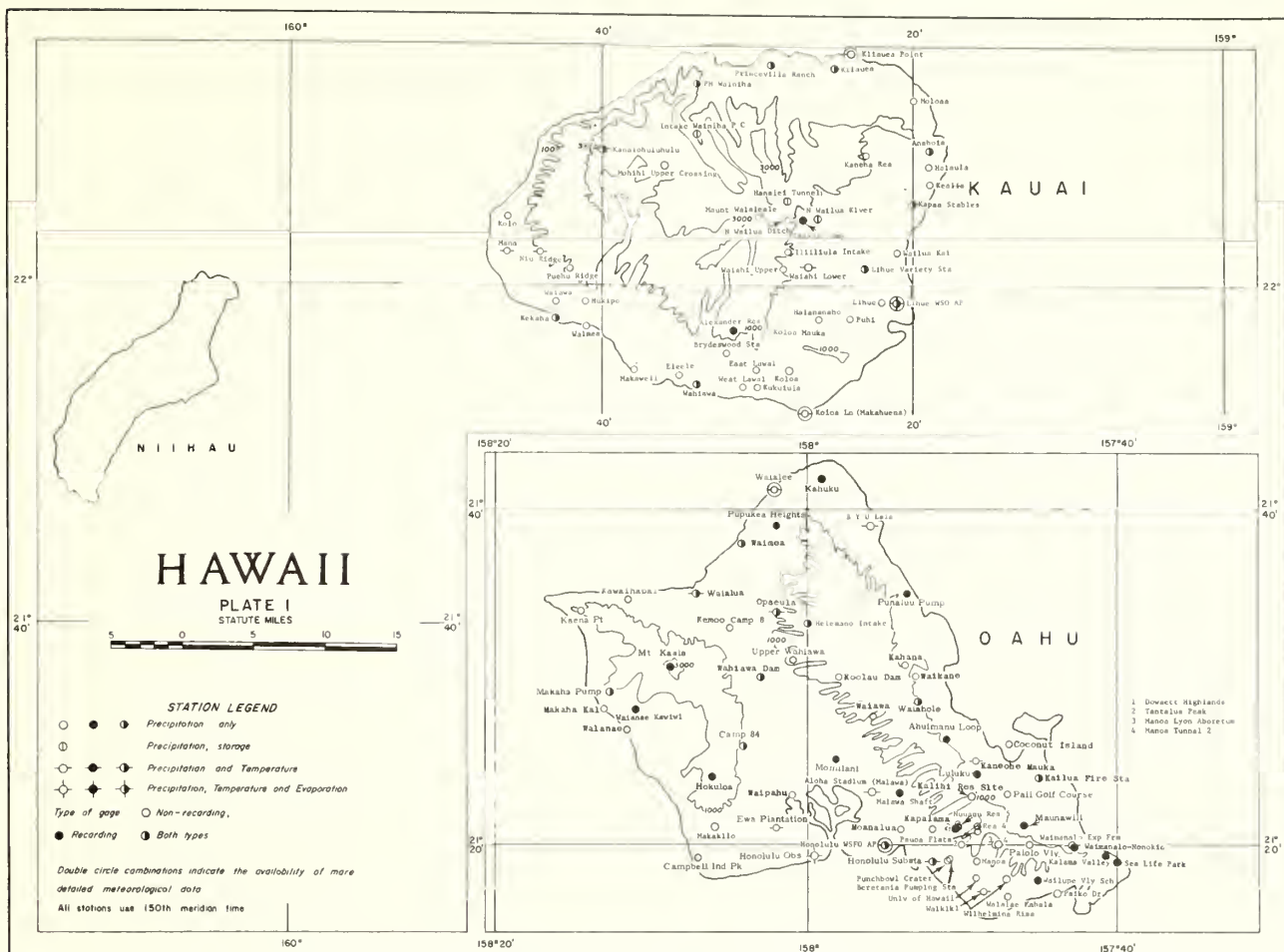
General weather conditions in the U.S. for each month are described in the CLIMATOLOGICAL DATA NATIONAL SUMMARY and STORM DATA.

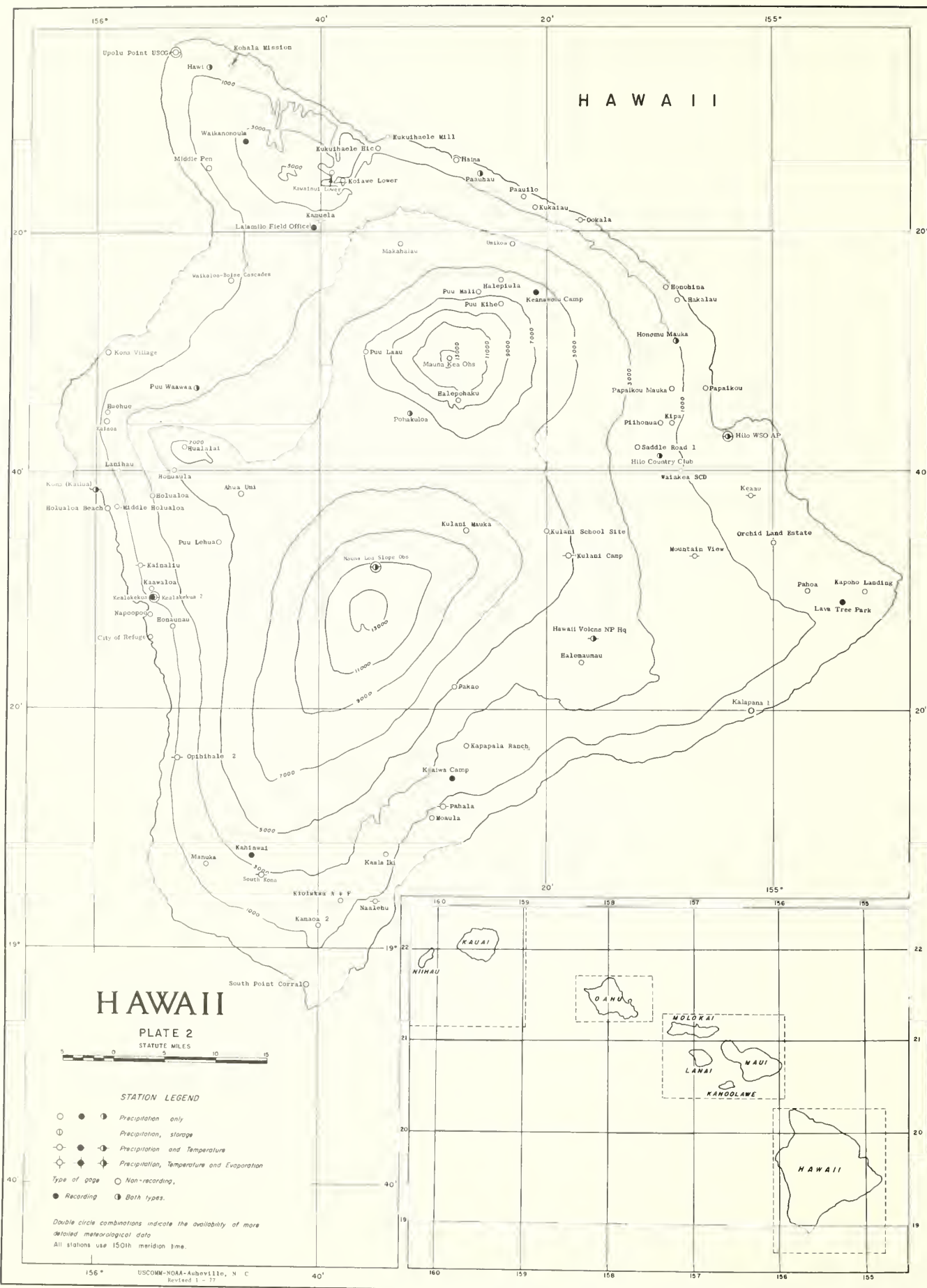
Information concerning the history of changes in locations, elevations, exposure, etc., of substations through 1957 may be found in the publication "Substation History" for this State, price 40 cents. Similar information for regular National Weather Service Offices may be found in the latest annual issue of Local Climatological Data, price 20 cents. Note minimum charge and ordering instructions below.

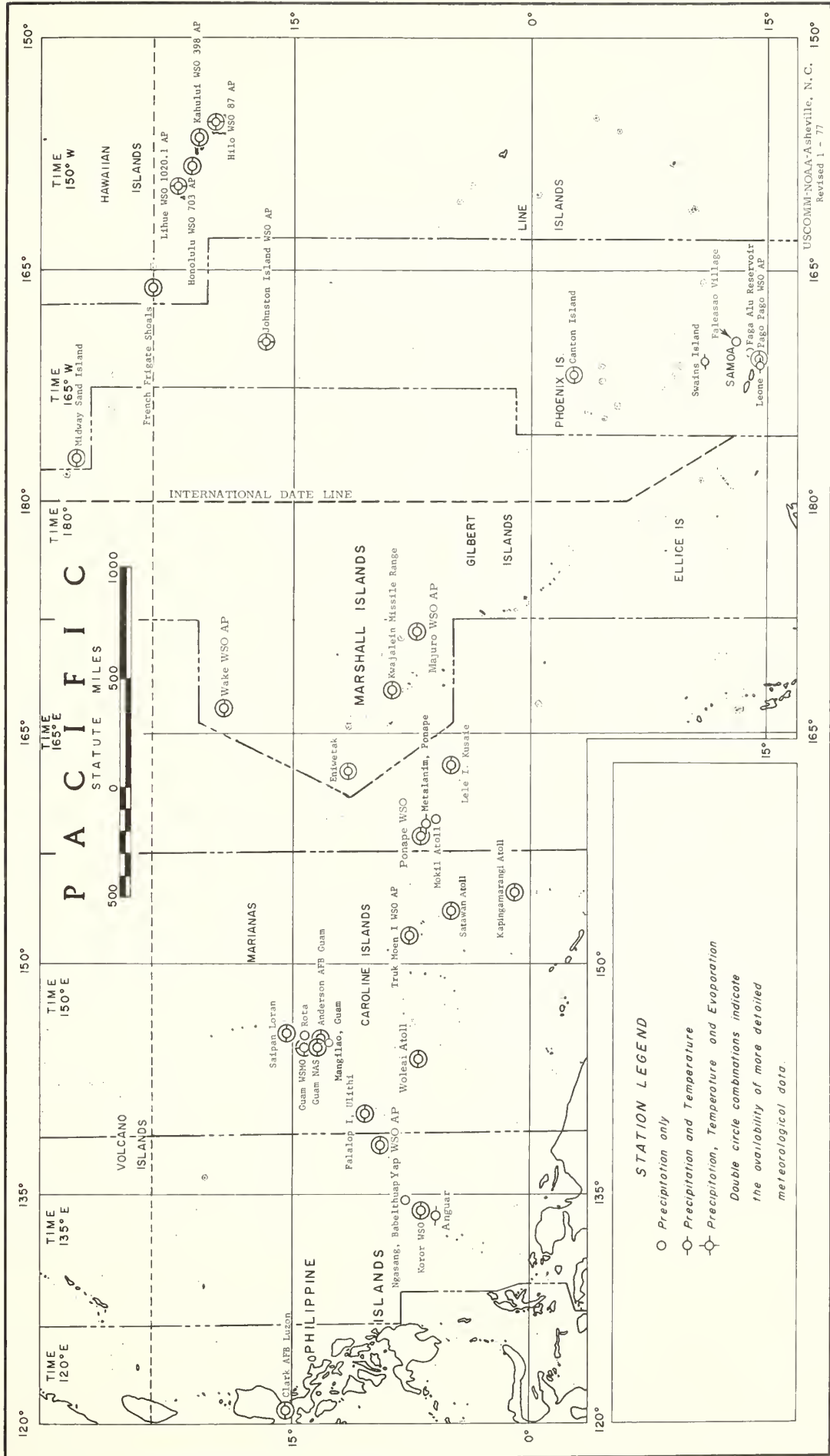
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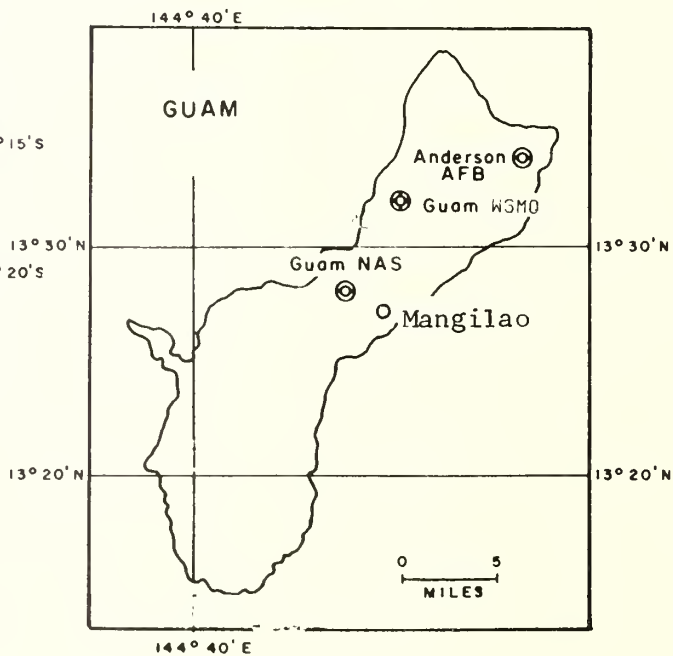
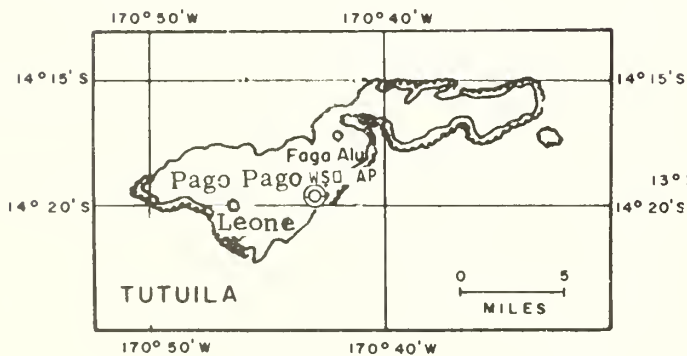
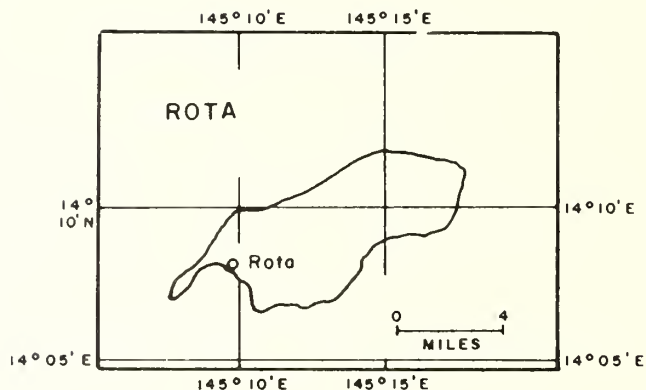
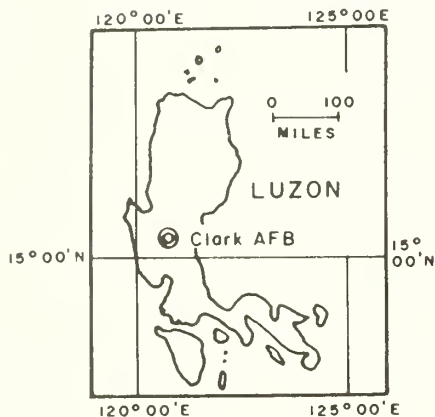
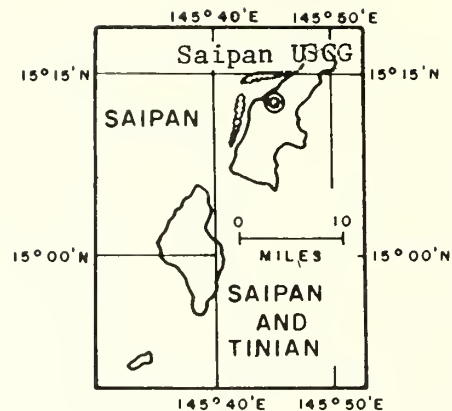
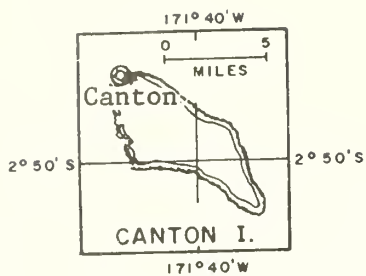
Make checks payable to Department of Commerce, NDAA; send payments and orders to: National Climatic Center, Federal Building, Asheville, N.C. 28801. ATTN: Publications



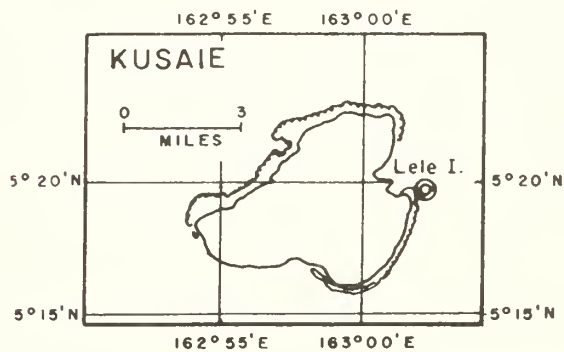
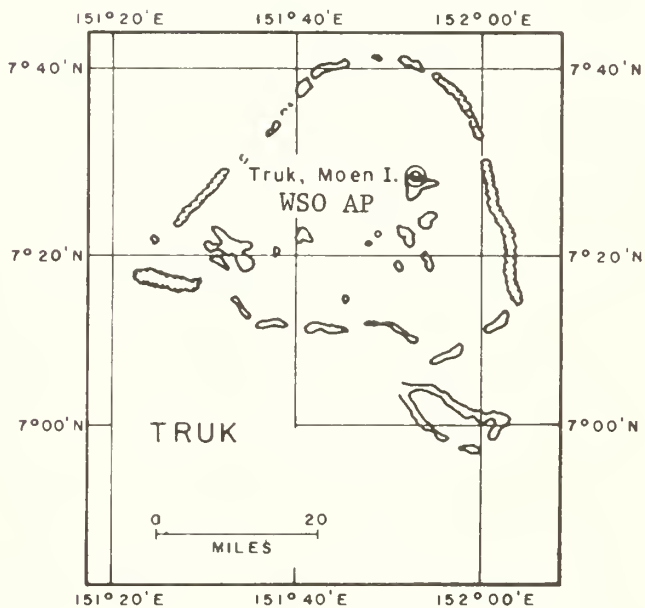
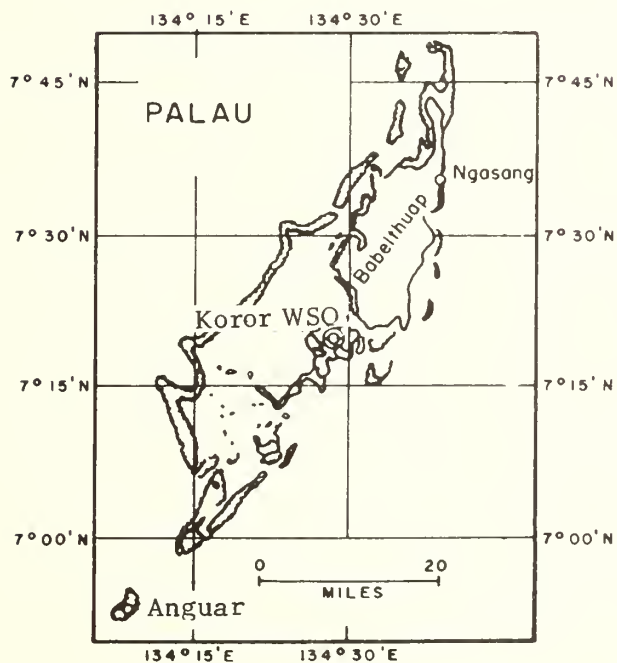
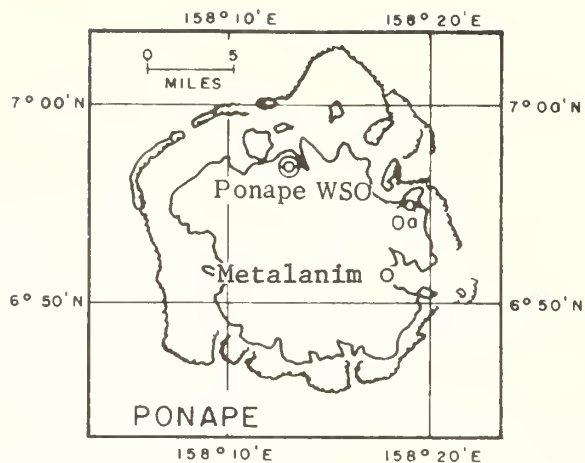
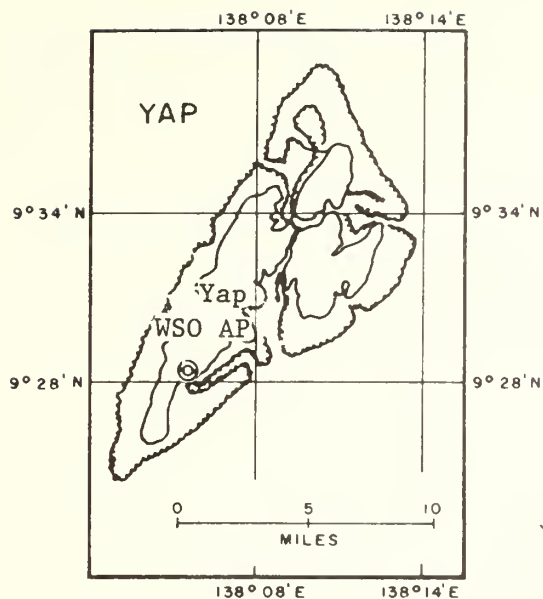






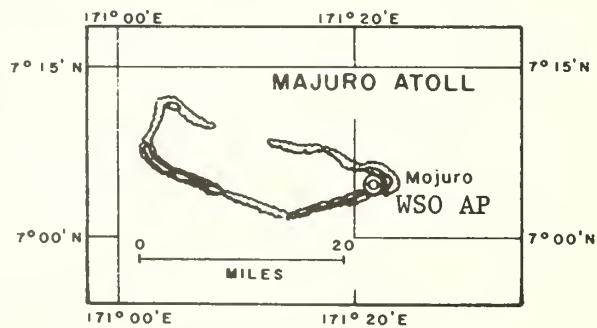
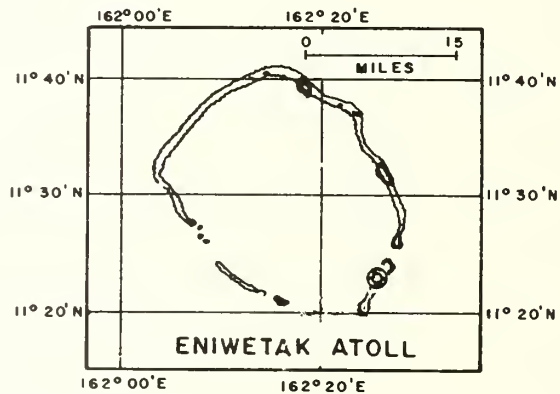
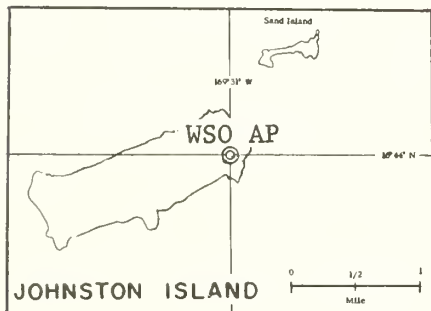
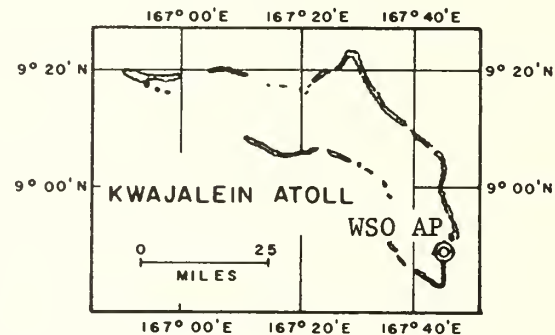
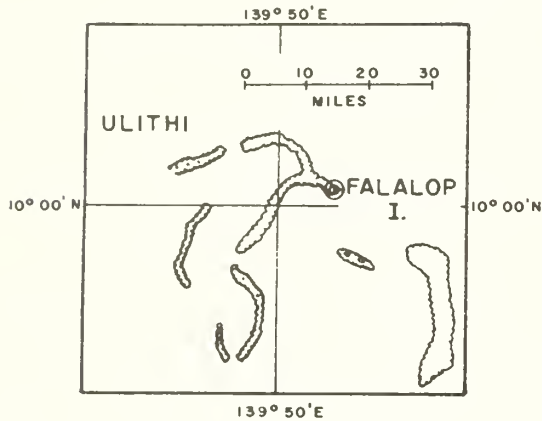
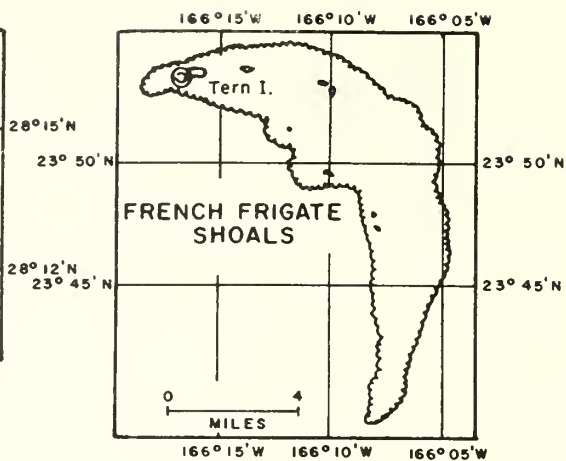
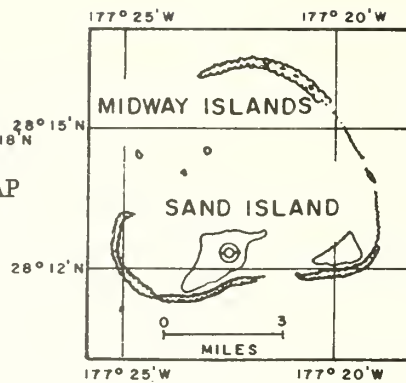
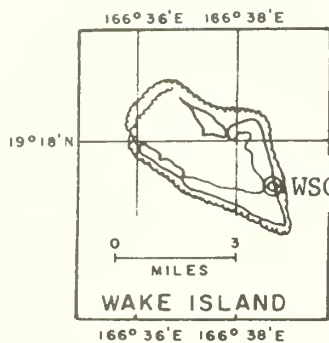


Reef



— Reef







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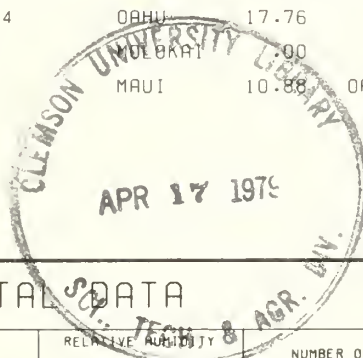
# Climatological Data

## HAWAII AND PACIFIC

### TEMPERATURE AND PRECIPITATION EXTREMES

HAWAIIAN STATIONS ONLY

HIGHEST TEMPERATURE: PUUKOHOLA HEIAU 98.1 HAWAII 90 DATE 18+  
 LOWEST TEMPERATURE: MAUNA KEA 085 111.2 HAWAII 18 DATE 20  
 GREATEST TOTAL PRECIPITATION: PAUOA FLATS 784 OAHU 17.76  
 LEAST TOTAL PRECIPITATION: WAIKOLU 540 A MOLOKAI 0.00  
 GREATEST 1 DAY PRECIPITATION: PAAKEA 350 MAUI 10.88 DATE 06



### SUPPLEMENTAL DATA

	WIND (SPEED - M.P.H.)						RELATIVE HUMIDITY AVERAGES PERCENT				NUMBER OF DAYS WITH PRECIPITATION								PERCENT OF POSSIBLE SUNSHINE AVERAGE (TENTHS)	SKY COVER SURPRISE TO SUNSET
	RESULTANT DIRECTION	RESULTANT SPEED	AVERAGE	FASTEST MILE	DIRECTION OF FASTEST MILE	DATE OF FASTEST MILE	STANDARD OF TIME				TRACE	.01-.09	.10-.49	.50-.99	1.00-1.99	2.00 AND OVER	TOTAL			
							GREENWICH CIVIL													
							12	18	00	06										
GUAM WSMO	-	-	-	28	NE	25	-	79	76	87	0	14	7	2	1	0	24	37	7.3	
HILO WSO 87 AP	34	0.9	6.2	26	SE	04	87	84	76	85	4	3	14	4	1	0	26	17	8.5	
HONOLULU WSO 703 AP	6	11.0	13.7	34	E	12	81	79	64	75	10	9	2	0	1	0	22	49	7.4	
JOHNSTON WSO AP	7	22.3	24.1	42	E	13	81	81	75	79	9	10	6	3	1	0	29	47	7.4	
KAHULUI WSO 398 AP	4	12.0	14.1	33	NE	18	-	78	63	74	4	11	3	1	1	1	21	52	6.6	
KOROR WSO	7	7.5	8.3	23	SE	25	87	-	80	77	2	11	10	3	1	1	28	60	8.0	
KWAJALEIN MISSILE RGN	6	16.6	16.9	25++	S	29	78	79	70	76	6	8	7	2	0	0	23	-	8.0	
LIHUE WSO 1020.1 AP	5	12.4	14.7	30	E	13	78	80	68	74	6	13	7	0	0	1	27	44	7.2	
MAJURO WSO AP	6	11.6	12.1	33	E	28	83	83	79	80	0	9	7	6	2	2	26	50	8.5	
PAGO PAGO WSO AP	9	8.4	12.3	38	NE	14	87	85	77	81	1	5	11	6	0	3	26	16	8.4	
PONAPE WSO	-	-	-	26	SE	10	81	-	77	78	3	6	13	1	4	1	28	26	8.8	
TRUK MOEN I. WSO AP	6	9.9	10.8	24	NE	08	79	-	75	76	3	6	2	3	6	1	21	40	9.3	
WAKE ISLAND WSO AP	8	16.3	17.2	36	E	12	82	83	71	77	9	15	3	0	0	0	27	71	4.3	
YAP WSO AP	8	9.3	9.7	30	NE	09	86	-	77	77	5	6	7	6	0	1	25	62	7.5	

I CERTIFY THAT THIS IS AN OFFICIAL PUBLICATION OF THE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION AND IS COMPILED FROM RECORDS ON FILE AT THE NATIONAL CLIMATIC CENTER, ASHEVILLE, NORTH CAROLINA 28801.

*Daniel B. Mitchell*

DIRECTOR  
NATIONAL CLIMATIC CENTER

**noaa**

NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION / ENVIRONMENTAL DATA AND INFORMATION SERVICE / NATIONAL CLIMATIC CENTER ASHEVILLE, N.C.

## MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

HAWAII AND PACIFIC  
DECEMBER 1978

STATION		TEMPERATURE											PRECIPITATION																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
		AVERAGE MAXIMUM	AVERAGE MINIMUM	AVERAGE	DEPARTURE FROM NORMAL	HIGHEST	DATE	LOWEST	DATE	DEGREE DAYS	NO. OF DAYS						TOTAL	DEPARTURE FROM NORMAL	GREATEST DAY	DATE	SNOW. SLEET			NO. OF DAYS																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
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SEE REFERENCE NOTES FOLLOWING STATION INDEX



# MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

HAWAII AND PACIFIC  
DECEMBER 1978

STATION	TEMPERATURE											PRECIPITATION														
	AVERAGE MAXIMUM	AVERAGE MINIMUM	AVERAGE	DEPARTURE FROM NORMAL	HIGHEST	DATE	LOWEST	DATE	DEGREE DAYS	NO. OF DAYS				TOTAL	DEPARTURE FROM NORMAL	GREATEST DAY	DATE	SNOW, SLEET			NO. OF DAYS					
										MAX.		MIN.						TOTAL	MAX. DEPTH ON GROUND	DATE	+1.0 OR MORE	+5.0 OR MORE	1.00 OR MORE			
										80° OR ABOVE	32° OR BELOW	32° OR BELOW	64° OR BELOW													
HAWAII	85.4				90	18+				3	0	0	0	0	.93		.80	6				.0	0	2	1	0
PUUKOHOLA HEIAU 98.1	73.0	57.3	65.2		79	1	50	28+		0	0	0	0	0	1.08		.93	5				.0	0	1	1	0
SOUTH KONA 2.31															15.80		1.96	12				.0	0	21	10	8
WAIKAEA SCO 88.2																										
ISLAND			65.0												7.22											

SEE REFERENCE NOTES FOLLOWING STATION INDEX

## MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

HAWAII AND PACIFIC  
DECEMBER 1978

STATION		TEMPERATURE											PRECIPITATION																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
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SEE REFERENCE NOTES FOLLOWING STATION INDEX

## DAILY PRECIPITATION

HAWAII AND PACIFIC  
DECEMBER 1978

STATION		TOTAL	DAY OF MONTH																															
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
HAWAII																																		
ISLAND OF KAUAI																																		
ANAHOLA 1114	A	3.37	x	x	.78	.70		.0R	x	x	.17	.09	.15	.43	.20	x	x	x	.13			.08	.02	.02	x	x	x	.24		.26	x	x		
BOYDESWOOD STA 885	A	6.61			2.20	.97		.03	x	x	.22	.22	1.00	.78	.47	x	x	.21		.19	.21	.11								x	x	x		
EAST LAWA 934	A	6.74	x	x	1.82	1.50		.10	.18	x	x	1.00	.24	.60	.35	.32	x	x	.10		.08	.16	.08							x	x	x		
ELELEE 927	A	4.80	x	x	2.06	1.05	T			x	x	.05	.05	.76	.46	.12	x	x	.07		.05	.17	.05						x	.02	x	x		
HALAULA 1110	A	3.67			.82	.60	.02		.11	x	x	.27	.04	.23	.30	.37	x	x	.16			.11	.03	.03	x	x	x	.38		.20	x	x		
HALEMANAHO 1006	A	6.47	x	x	1.19	1.30		.14	.28	x	x	.87	.12	.30	.39	.54	x	x	.21		.04	.08	.08						x	.36		.56		
HANALET TUNNEL 1053	A	9.60	x	x	x	x		x	x	x	x	.75	.20	.34	.70	.44	x	x	.08		.02	.05	.07	x	x	x	x	x	x	x	x	8.60		
HUKIPO 945	A	2.19			x	.96						.03	.08	.10	.02																			
ILILIULA INTAKE 1050	A	10.73	.08	x	2.08	.38	.06	.16	.22	x	x	1.78	.48	.78	2.00	1.08	x	x	.31		.18	.11	.19	.07	x	x	x	x	.46	.01	.27	x		
INTAKE WAIKIHIA PC 1086	A	18.50	x	x	x	1.64	x	2.36	x	x	x	4.61	.61	x	4.46	x			1.30		x	x	x	x	x	x	3.52	x	x	x	x			
KANALOHULULU 1075	A	9.07			2.82	.87		.22	.13		.07	.14	.13	.50	.77	.32	.02			.25	.57	.16	.40	.30						.13	1.17			
KAREHA RESERVOIR 1082	A	7.82	x	x	.92	.86	.10	.15	1.10	x	x	.87	.18	.32	1.00	.55	x	.25		.05	.14	.06	.06	x	x	x	.70			.41	x			
KEALA 1112	A	3.95			1.30	.36	T	.10	x		x	.50	.06	.14	.31	.16	x	.14		.02	.05	.10	.10	x	x	x	.41			.20	x			
KEKAHA 944	A	1.51			1.00	.43								.06	.02																			
KILAUEA 1134	A	4.26			1.28	.13	.04	.08	.10		.22	.27	.12	.55	.13	.21	.02				.04				31	.08					.62	.05		
KILAUEA POINT 1133	A	2.77	x	x	.45	.31	.01		.05	x	x	.18	.30	.13	.16	.08				x	.08			.06	x	x	x	.11		.83				
KOLB 1033	A	2.67			2.37	.30																												
KOLB 936	A	6.84	x	x	1.24	1.50		.21	.35	x	x	1.00	.42	.72	.55	.18	x	x	.11		.11	.20	.11	.01	x	x	x	.23			.22	x		
KOLOA LN (PAK) 940.1	A	1.48	x	x	.20	1.64	x	x	.18	x	.08	.13	.01	.47	.17		x	x						.02	.01									
KOLOA MAUKA 984	A	6.81	x	x	x	3.23	x	x	x	x	x	1.41		.55	.56	.47	x	x	x	1.36	.10	x	x	x	x	x	.16	x	x	x	x			
KUKULUA 935	A	5.55	x	x	1.40	1.50		.17	.18	x	x	.62	.23	.60	.12	.12	x	x	.10		.05	.21	.07											
LIHUE VARIETY ST 10621	A	5.31	x	x	1.53	.17		.02	.45	x	x	.75	.20	.34	.70	.44	x	x	.08		.02	.05	.07	.07	x	x	x	.25		.17	x			
LIHUE 1020	A	3.95	x	x	1.95	.29		.33	x	x	x	.20	.04	.27	.33	.13	x	.05		.04	.03	.08								.12				
LIHUE W50 AP 1020.1	A	3.88	.04	.17	2.18		.01	.22	.01	.01	.21	.08	.08	.23	.19	.02	T	T	T		.03	.13	T	.03	.03	.01	.08		.01	.12	T	T		
MAKAHELI 965	A	3.13			2.42	.08						.03		.38	.10	.05	.01	.04		.03	.01													
MAHA 1026	A	1.88			1.75	.22							.01																					
MOHINI UPB CROSS 1083	A	2.00	x	x	1.22	x		x	x	x	x	.35	x	x	x	x	x	x	x	x	.08	x	x	x	x	x	.05	x	x	x	x			
MOLOKAI 1145	A	2.00	x	x	1.22	x		x	x	x	x	.35	x	x	x	x	x	x	x	x	.08	x	x	x	x	x	.05	x	x	x	x			
MOUNT WAIKALELE 1047	A	2.49			2.00	.48																												
NIU RIDGE 1035	A	2.49			2.00	.48																												
N WAILUA DITCH 1051	A	7.21	.16	x	x	.76	.06	.02	.09	.53	x	x	1.21	.36	1.17	1.03	.64	x	x	.28	.18	.19	.04	.17	x	x	x	.10		.22				
N WAILUA RIVER 1055	A	7.00	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	7.00			
PK WAIKIHIA 1115	A	8.24	x	x	.79	.78	.04	.35	.76	x	x	1.20	.49	.71	.80	.55	x	x	.26		.08	.07	.08	.05	x	x	x	.72	T		.41			
PRINCETON RANCH 1117	A	5.67	x	x	1.02	.14	.05	.23	x	x	x	.68	.44	.08	.08				.38		.02	.05	.05	.02	x	x	x	.36		.86				
PUEHU RIDGE 1040	A	2.46			2.00	.26								.08	.08					.04														
PUIHI 1033	A	4.36	x	x	2.25	.26		.12	.24	x	x	.32	.06	.38	.05	.06	x	x	.06		.05	.13	.32											
WAIKIHIA 930	A	5.00	x	x	1.62	1.23	.01	.01	x	x	x	.29	.18	1.03	.17	.11	x	x	.07		.11	.11	.06							.05				
WAIKIHIA LOWER 1054	A	9.94	.03	.24	.26	1.80	.85		.50	.59	.31	.38	.64	.45	.84	1.41	.74	.26	.08	.04	.05	.15	.06	.02	.03	.08	.12	.04	.08	.25	.05			
WAIKIHIA UPPER 1052	A	10.92	.01	.41	.26	2.74	.32	.02	.11	.28	.12	.34	.72	.36	.66	1.98	1.58	.11	.12	.04	.07	.06	.14	.02	.14	.08	.12	.03	.01	.01	.02	.02		
WAIKIHIA 943	A	1.38			1.00	.28								.04	.06																			
WAILUA KAI 1065	A	4.93	x	x	.48	1.47		.30	x	x	x	.24	.15	.29	.78	.40	x	x	.06	.01	.08	.14	.03	x	x	.31			.18	x	x			
WAILUA 847	A	1.59			1.50	.05								.04																				
WEST LAWA 831	A	5.43	x	x	1.85	.85		.07	.10	x	x	.56	.27	.80	.15	.13	x	x	.10	.12	.16	.07												
ISLAND OF OAHU																																		
ALBHA STADIUM-HALAWA	A	3.06			.07	1.41	T	.41	.06	T	.01		.05	.45	.16	x	x	.03		.16	.14	.02		x	x	x	.08		.01					
BOYDESWOOD STATION 57A	A	4.10			1.85	.01		.55	.01		T	.10		.08	.61	x	x	.16		.20	.26	.16		x	x	x	.10							
B Y U LAKE 903.1	A	3.29	.02	T	1.46	T		.03	.18	.04	.06	.04	.04	.33	.11	.02	.05	T	.10	.14	.07	.04	.03	.01	.02	.02	.03	.01	.02	.11	.27	T		
CAMPBELL IND PK 702.5	A	1.72			1.55	T		T	T					.17																				
COBOUT ISLAND 840.1	A	3.08	.02	x	.05	1.55	.08	.13	.15	x	x	.12	.01	.18	.14	.04	x	x	x	.26	.01	.02	.02	x	x	x	.11	.01	.05	x	.15			
ELB PLANTATION 741	A	1.26	x	x	.01	1.04		.03	.01				.02	.08	.03				.01		.01	.02												
HANOLULU OBSERV 702.2	A	1.72			1.20								.07	.25	T	.05	T	.01	.01	.01	.02		.01											
HANOLULU W50 703 AP	A	2.06			1.41	.01	.12	.02			T	.01	T	.36	.06	T	.03	T	.01	.01	.01	T	T	.01								.01		
KAENA POINT 841.3	A	5.04	x	x	1.60	2.30	T	.70	.10	x	x	.07	.10	.18	.15	.12	x	x	.30	.10	.07	.05	x	x	x	x	x	x	x	1.96	x			
KAHANA 883	A	15.56	x	x	2.26	x	x	x	x	x	x	.82	x	x	x	x	x	3.05	x	x	x	x	x	x	x	x	x	x	x	x	1.96	x		
KALUHI RES SITE 777	A	8.98	.10	.08	.04	1.62	.06	2.22	1.20	.02	.58	.28	.06	.38	.30	.06	.12	.10	.26	.18	.10			.08	.60	.16	.12	.02		.14	.08	.02		
KANEHE MAUKA 78																																		

HAWAII AND PACIFIC  
DECEMBER 1978

SEE REFERENCE NOTES FOLLOWING STATION INDEX

# DAILY PRECIPITATION

HAWAII AND PACIFIC  
DECEMBER 1978

STATION	TOTAL	DAY OF MONTH																															
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
HAWAII																																	
NAPALEHU 14	A	7.16				.56	3.47	.24		.72											.06			T	x	x							
NAPQBQ00 26	A	1.73	x	x	x	.67	x	x		x											x	x	x	x	x	x							
OKALA 223		13.20	T	T	T				1.11	.12	.53	1.08	.16	.50	.20	.03	.07	.44	.17	.58	.35	.47	.37	T	.19	T		.14	.22	.04	.02	T	.48
OPINIALE 2 24.1		2.42	.02	.02	.21	.08	.10	.03	.38	T			.13	.26	.07	.03	.07	T	.05	.70	.05	.03	.03	T	.04	T							
ORCHIO LAND EST 91.5	A	10.26	x	x	x	x	x	x	x	2.12	x	x	x	x	x	x	5.50	x	x	x	x	x	x	2.55	x	x	x	x	x	x	x	x	
PAUHAU 217		10.41				.36	5.72		.51	.02	.04	.24	.01	.33	.04	.55	.32	.22	.04	.08	.25	.34	.17			.11	.03	.02	.15	.25	.02	.01	.56
PAUHAU 221		14.15				7.18			.69	.06	.03	.37	.06	.40	.17	1.02	.58	.17	.08	.24	.88	.42	.55	T	.34	T	T	.10	.42	.03	T		.35
PAHALA 21	A	4.10				.15	2.10	.66	.63	x		x	.48								.06												
PAHUA 65		11.33	.48	x	x	1.00	1.20	.35	.41	.15	x	x	2.00	.66	.19	.48	.62	x	x	2.42	.24	.45	.28	T				.15	.14		x		.11
PAPAIAKU 144.1		9.08	.12	x	x	.45	.05	.10	.45	.52	x	x	1.66	.66	.31	.38	1.70	x	x	1.56	.22	.67	.15	T				.02	.01	.06			
PAPAIAKU MAUKA 140.1		16.34	.41	x	x	.97	.02	.38	.47	.27	x	x	3.50	1.50	.58	.98	2.36	x	x	2.57	.58	.95	.53	.01				.06	.09	.12			
PIIMOHUA 88	A	-	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x		
PUUKOHOLA HEIAU 98.1		.93							.13																		x	x	x	x	21.20	-	
PUU LEHUA 73	A	.60	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	.60	
SOUTH KONA 2.31		1.08				.93	.04					.11																					
UPOLU POINT USCG 158.2		2.07	T	.02	.01	.67	T		.10	.05		.10	T	.02	T	T	.49	.11	T	.27	.03	.13	T	T	T		.07		T				
WATAKEA SCG 88.2		15.80	.12	.20	.24	.22	.28	.36	.31	.32	1.35	1.50	.35	1.96	.38	.94	1.47	1.01	.85	1.28	1.08	1.08	.34					.08		.06	.01	T	
WAIKALOA-BOTS CAS 85.8		1.35				.08	.51	.61																									

SEE REFERENCE NOTES FOLLOWING STATION INDEX



# DAILY PRECIPITATION

HAWAII AND PACIFIC  
DECEMBER 1978

STATION	TOTAL	DAY OF MONTH																																
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
PACIFIC																																		
* * *																																		
EAST OF 180TH																																		
MERIDIAN																																		
ATU'U	14.42			.03	.78	.19		.02	.88	1.86	1.28	.68	.12		1.61	.46	.41	.52	.12		.34			.13	.61	.12	.33	1.18	.75	1.32	.13	.11	.42	.
CANTON ISLAND	6.87							.01								.03	.15					.02	1.05	2.01	*	*	1.57	.39	.55		1.08		.	
FALCAISO VILLAGE	25.45		1.75	.82	.36	.04	1.21	.67	2.88	1.05	.16	.27	.37	1.56	.68	.71	.95	.12	T	2.01	1.66		.35	.18	1.65	1.43	.77	1.51	.48	.39	1.18	.13	.	
JOHNSTON IS WSO AP	5.39	.01	.14	.03	.03	T		.02	.03	.04	.88	.05	.28	.17	T	.05	.76	1.76	.62	.02	.10	.22		.16	T		.01	T	T	T	T	.		
FRENCH FRIGATE SHOALS	2.43	.07	.53		.01						.13	.76	.48	.18	.17	.02	.01	.05			.01				.01							.		
MIDWAY SAND ISLAND																																.		
MALAELOA																																.		
PAGO PAGO WSO AP	15.62			.07	.33	.20		.95	2.15	.62	.28	.06	.34		3.53	.13	.08	.45	.12		.35	T		.07	.07	.71	2.28	.46	.75	.66	.50	.18	.30	
* * *																																		
WESTERN PACIFIC ISL.																																		
NORTH OF 12 N																																		
AGAT	5.18	.57	.08	.08					.13	.21			.42		.13	.34	.24						.50	.20						.75	.12	.		
ANDERSEN AFB GUAM	6.14	.62	.05		.27	1.04	.01		.07	.06	.05	.23		.02	.17	.01	.06	.01	.05	.05	.06	.04	.44	.22	.03	T	T	1.58	.98	.04	.03	.		
CLARK AFB LUZON	3.78					.06						.25		.58									.15	.07		.32	.08					.		
DEDEO	4.92	.90	.25	T	.05	.70	.63		.03						.39	.22	.05	T	.03	.08	T		.35	T	.05	.15	.05	.03	T	.90	.05	T	.	
GUAM NAS																																.		
GUAM WSO	4.80	.66	.08		.14	.86	.01	.10	.02		.32	.25		.04	.49	.03	.02			.01		.06	.22	.20	.05	.02	.01	1.04	.08	.01	.07	.		
INARAJAN AD 5TH	5.37	.58	.12			1.04	.18	.40	.18	.13	.40	.10		.41	.19				.16			.20	.10	.30	.22			.24	.40			.		
INARAJAN - NASA	5.06	1.00	.08			1.41	.09	.10	.07	.19	.21	.05		.60	.11							.13	.10	.01	.11	.03	.15	.65	.08			.		
MANGILAG	3.27	.20	.03		1.18	.03	.64	.02	.06	.20				.18			.20		.04	.02				.12	.10	.01		.08	.05	.09	.01	.		
ROTA																																.		
SAIPAN LOBAN	4.47	.09	.19	.24	.12	.15	.15	.07	.09	.07		.11	.11	.08	.24	1.04	.01						.25	1.05		.22	.10	.03		.03	.03	.		
UMATAK	5.23	1.17	.17	T		1.60	.32	T	.12		.26	.20	T	T	.60	T	.05	T	T	.05	T		.20	T	T	.18	.23	T				.		
WAKE ISLAND WSO AP	1.16	T	T	.01	.08	T		.01	.08	.02	T	.02	.13	.02	T	T	T	T	T		.10	.02	.01	.04	.03		.01	.36	.07	.06	.08	.		
YIG	5.95	1.18	*	*	.13	*	*	*	1.02	.18		.58		.03	.80	.04				.07			.28	.06		.05			1.45	.02		.02	.	
* * *																																		
CAROLINE AND																																		
MARSHALL ISLANDS																																		
ENHETAK																																.		
FALADP I ULITHI ATOLL																																.		
KAPINGMARANGI ATOLL																																.		
KOROR WSO	10.33	.36	1.38	.14	T	.19	.17	.21	.68	.32	.71	4.00	.07	.01	.04		T		.09	.01	.03	.01	.02	.22	.24	.84	.09	.26	.20	.02	.02	T	.	
KUJALEIN MISSILE RMN	3.14	T	.50	.01	.06	T		.05	.48	.11	.40	T	.26	.02								.14	.04	.01	.28	.58	.15	T	.01	.03			.	
LELE I KOSRAE	20.18	.46	.97		.70	.81		.08	.03	1.55	2.52	1.19	.17	.20	1.53	.28	1.42	3.45	.02		.06		1.70	.01	.22	2.12	.15	.04		.40	T	.		
MAJURO WSO AP	14.35	.01	1.38	.10	.10	.38	2.34	.73	2.86	.48	.83	.02	.04	.08	.57	.06	.04	.01				.01	.37	.40	.58	.38	1.22	.56	.01	.68		.		
METALANTA	8.38		.23	.02	.74	.09	.45	.25	1.83	.35	1.37	.18	.15	.46	.29	.25	.45	.04				.26	.08	.40	.12	.02	.02	.05	.02	.26		.		
NGARANGI-BABELTHURP	8.46	*	*	*	*	*	*	1.55	.27	.22	.55	1.83	1.36	.18	.19	.12	.02				.05	.02	1.80									.		
PONAPE WSO	14.00	.04	.16	.25	1.27	.03	.35	.24	1.88	.29	3.01	.18	.24	1.81	1.87	.74	.46	.09		.07	.02	T	.05	.04	.11	.26	.16	.24	T	.03	.12	T	.	
SATAVAN ATOLL																																.		
TAKU MBEN I WSO AP	12.47		.55	.20	.56	1.58		.02	1.45	1.01	1.09	.01	1.34	.05		1.07	.04			T	T		.01	.02		.22	2.67			T	.58	.		
WOLEAI ATOLL		.32	.04		.31	.05		1.37			1.10	.04	.77	.27	.02	.14	.14	.01					.01	.32				.07	T	.04		.		
YAP WSO AP	8.88	2.26	T		T	.47		.08	.19	.84	.57	.88	.92	.40	.85		.15	T		T	.03	.01		.05		.17	.12	.04	.08	.56	T	.11	.	

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# DAILY TEMPERATURES

HAWAII AND PACIFIC  
DECEMBER 1978

STATION		DAY OF MONTH																															AVERAGE
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
HAWAII																																	
ISLAND OF KAUAI																																	
KANALOHULUHULU 1075	MAX MIN	68 48	67 54	68 45	65 50	62 51	60 51	62 53	66 54	66 55	66 55	66 55	60 55	61 52	62 53	62 55	63 53	62 53	59 52	57 51	65 49	58 48	58 50	55 47	61 49	60 44	63 39	63 43	61 52	52 46	60 52	61.9 50.4	
KILAUEA POINT 1133	MAX MIN	82 72			84 69	78 69	78 67	75 65	75 67		81 69	79 64	78 64	77 59			79 64		76 65	78 66	77 61				79 66		78 66	77 63					
KOLOA LN (MAK) 940.1	MAX MIN	86 70	87 69	88 72	87 74	86 70	86 66	77 68	83 70	80 72	81 71	78 69	78 69	75 66	75 63	78 67	79 64	78 67	77 69	77 67	78 68	74 66	77 64	78 65	76 66	78 66	78 65	79 64	78 64	78 63	74 62	79.4 67.3	
LIHUE W50 AP 1020.1	MAX MIN	81 76	81 71	80 69	75 68	77 63	80 70	74 69	78 71	78 72	75 71	77 71	78 71	81 69	75 70	77 70	76 72	74 72	73 69	76 69	78 69	79 66	78 66	79 66	77 65	78 66	80 63	79 69	79 66	77 65	78 65	77.6 68.6	
NIU RIDGE 1035	MAX MIN	77 63			82 62	79 62	79 58	78 59	80 62		78 59	76 61	80 63	75 60	79 62			78 58		78 60	75 60	76 66											
WAIAMI LOWER 1054	MAX MIN	80 59	81 68	80 63	81 66	77 56	78 55	79 55	76 60	79 65	74 65	79 60	78 64	71 60	74 63	76 65	77 65	76 66	74 63	72 63	70 59	74 59	78 56	75 54	77 57	76 54	70 53	75 64	73 62			76.1 60.8	
WAIMEA 947	MAX MIN	82 63	88 58	84 65	83 69	77 62	79 61	81 64	81 65	84 59	84 62	83 64	82 62	77 65	79 68		80 64	81 64	80 67	77 69	80 69	79 58	82 59	81 59	80 59	80 61	79 60	80 62	80 55	80 59	80.8 62.1		
ISLAND OF OAHU																																	
ALOHA STADIUM-HALAWA	MAX MIN	86 65	83 70		81 67	81 67	77 68	78 69	78 71		82 70	80 71	80 69	75 68	77 67			79 68		76 68	73 66	77 68	74 62			79 59	76 62	78 62	78 65				
8 Y U LAIE 903.1	MAX MIN	82 73	83 74	88 67	82 70	80 69	77 69	78 70	80 70	81 70	80 71	79 71	81 72	79 69	78 69	78 69	79 71	78 70	77 69	78 70	78 70	77 65	77 67	78 66	77 65	79 64	79 63	78 64	77 63	76 63	76 66	79.0 68.4	
HONOLULU OBSERV 702.2	MAX MIN	87 68	86 68	84 63	83 69	83 66	77 68	80 69	81 69	83 64	84 65	82 69	83 71	82 67	76 67	81 69	80 62	80 71	82 70	80 69	78 68	80 66	79 58	79 58	81 58	80 57	82 58	81 60	81 64	78 63	77 56	81.0 64.9	
HONOLULU W50 703 AP	MAX MIN	84 72	83 69	81 64	81 66	78 67	79 68	80 69	81 70	82 70	79 70	81 70	79 70	75 67	77 67	79 68	79 68	80 70	79 68	76 67	78 63	77 60	77 59	79 59	80 59	78 60	80 59	79 68	80 64	75 63	75 60	79.0 65.8	
KANEONE MAUKA 781	MAX MIN	82 70	80 72	79 70	82 71	78 67	75 68	74 69	76 71	80 72	77 71	76 72	78 72	73 68	76 69	75 63	76 71	78 70	74 68	72 68	75 68	76 66	74 67	77 66	77 67	75 62	77 68	75 65	78 64	78 63	76.6 68.2		
MANDA LYON ARBORETUM	MAX MIN	83 63	76 69	83 66	84 68	78 65	76 65	75 64	75 68	79 68	74 68	72 67	75 66	76 64	74 64	72 65	77 65	78 65	74 63	69 63	74 63	71 62	74 63	75 63	78 65	78 65	76 65	77 64	75 62	77 62	74 62	75.8 64.7	
OPAEULA 870	MAX MIN	82 67	83 66	81 64	82 69	82 69	72 65	72 66	74 67	76 67	74 68	76 67	76 67	76 65	76 65	74 65	76 65	76 65	76 64	76 64	76 63	76 63	72 63	71 63	73 64	76 62	75 62	74 61	74 60			76.0 65.2	
WAIALEE 896.3	MAX MIN	79 71	80 68	80 69	82 71	78 68	75 69	77 69	76 72	78 69	76 68	77 66	78 66	74 66	75 64	77 64	77 66	75 66	74 65	76 65	74 66	74 66	76 67	76 65	76 67	75 67	76 68	73 65	73 64	76.4 66.9			
WAIALUA 847	MAX MIN	85 64	82 68	86 68	84 70	82 66	75 67	77 69	78 64	78 62	78 62	74 63	77 68	74 66	77 65	76 66	76 68	76 62	77 68	75 67	76 62	76 64	74 60	74 58	76 56	78 58	77 60	79 62	78 63	70 56	72 54	77.4 63.7	
WAIKIKI 717.2	MAX MIN	87 73	86 72	86 66	85 73	83 67	80 70	78 72	81 72	83 72	83 71	77 70	77 69	80 68	77 69	82 68		79 68	82 72	81 68	76 69	79 65	78 64	80 63	80 60	82 62	81 61	81 61	77 68	77 63	80.9 67.2		
ISLAND OF MOLOKAI																																	
MOLOKAI AP 524	MAX MIN																																
ISLAND OF LANAI																																	
LANAI AIRPORT 656	MAX MIN	80 62	80 66	77 63	80 63	78 67	76 66	73 66	76 64	78 63	78 64	77 62	77 62	78 60	76 60	76 58	78 59	78 61	78 63	77 63	76 62	73 61	71 53	72 61	75 57	75 62	75 62	74 62	75 60	75 60	76 59	72 59	76.1 61.6
LANAI CITY 672	MAX MIN																																
ISLAND OF MAUI																																	
MOLEKALA R 5 338	MAX MIN	61 41	56 45	69 40	64 40	62 47	56 50	58 49	59 49	65 44	62 40	60 47	57 38	49 41	47 37	56 41	54 30	59 35	61 42	55 42	51 39	45 35	45 33	49 35	54 34	54 34	55 37	61 37	63 41	68 39	59 35	62 39	57.6 39.9
HANA AIRPORT 355	MAX MIN	82 71	80 67	82 71	80 69	83 70	74 69	75 68	80 73	78 69	78 67	78 68	79 68	77 68	78 69	78 66	77 69	78 68	75 67	75 67	77 67	76 67	76 62	77 61		78 64	77 63	77 64	78 64	77 64	73 61	77.6 66.9	
KAAHAPALI AP 453.1	MAX MIN	86 65	85 69	84 66	85 68	85 68	79 67	79 69	83 63	83 67	82 69	82 70	82 68	80 72	79 66	80 65	80 66	79 68	80 68	80 67	78 69	79 68	78 65	78 61		79 63	79 64	80 66	79 66	79 66	77 60	80.1 66.5	
KAHULUI W50 398 AP	MAX MIN	86 65	86 69	87 67	86 68	76 70	78 70	80 72	82 67	82 71	82 69	82 71	82 69	80 71	80 69	79 69	80 70	80 69	80 70	80 69	80 68	78 69	79 71	78 68		75 63	79 66	79 65	80 65	80 63	75 66	77 66	80.2 67.9
KAILUA 446	MAX MIN	77 67	76 68	77 66	78 65	79 65	77 66	75 66	77 68	77 67	75 65	72 65	73 65	75 64	72 64	73 65	71 66	72 66	73 66	70 63	70 66	72 63	70 59	72 58	74 57	74 58	75 59	74 60	73 60	74 60		73.9 63.8	
KEAWAKAPU BEACH 260.2	MAX MIN	86 66	85 67	85 66	83 68	88 68	77 67	81 69	83 63	85 65	86 62	83 65	85 65	82 62	82 63	83 60	83 62	84 62	83 60	83 62	81 67	81 62	82 61	83 56		78 62	79 63	80 58	83 62	81 58	78 60	82.2 63.3	
KULA SANATORIUM 267	MAX MIN	75 57	71 57	72 56	72 57	76 58	68 60	70 58	71 54	71 54	72 55	70 54	71 54	69 54	71 52	70 51	70 51	71 51	70 52	70 52	73 48	65 51	65 51	68 50		66 49	66 50	70 49	67 49	67 45	68 45	69.9 52.6	
LAHAINA 361	MAX MIN	86 61	86 70	87 69	85 73	79 62	82 62	84 62	85 59	85 67	85 66	85 67	85 61	82 67	84 59	85 58	85 70	83 67	82 67	82 60	77 60	77 59	81 66	83 61		80 63	83 65	82 52	82 54	81 54	79 50	82.8 62.5	

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# DAILY TEMPERATURES

HAWAII AND PACIFIC  
DECEMBER 1978

STATION		DAY OF MONTH																															AVERAGE
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
HAWAII																																	
UH AGR1 RES CNTR 324.5	MAX MIN	73 58	72 56	72 57	76 59	76 61	69 60	70 59	68 55	71 57	70 55	72 55	71 56	70 56	69 53	69 54	68 53	69 53	69 54	69 50	64 50	65 52	67 51	68 53	67 51	69 51	68 50	66 51	65 54	62 45	69.1 54.0		
ISLAND OF HAWAII																																	
HAWAII VOLCNS NP HQ 54	MAX MIN	71 50	65 52	69 57	66 51	63 57	63 54	65 52	68 54	66 53	66 55	62 52	63 51	61 49	61 51	61 51	60 50	64 51	58 51	57 51	57 47	60 46	60 40	67 42	65 50	60 52	66 49	66 50	62 47	68 50	60 48	63.3 50.4	
HILO WSO AP 87	MAX MIN	80 69	80 67	79 69	87 63	78 70	78 67	79 67	79 66	77 69	78 64	76 68	79 67	74 65	76 64	76 65	77 64	76 67	78 67	73 67	75 67	76 68	76 59	78 57	79 56	76 63	76 63	78 62	77 65	79 61	73 65	74 62	77.3 64.8
KAINALIU 73.2	MAX MIN	81 64	80 64	80 63	80 63	84 67	75 67	75 65	80 64	77 61	81 65	79 62	79 64	77 63	76 59	78 60	70 61	74 61	78 61	77 62	80 61	79 60	74 55	75 56	75 56	74 59	75 58	77 58	78 57	76 58	73 61	77.3 61.1	
KAMUELA 192.2	MAX MIN	75 60	76 62	74 55	76 55	77 50	68 63	67 60	70 60	68 60	70 60	71 59	67 57	67 60	68 56	68 57	66 56	68 58	69 57	66 57	64 55	64 52	68 49	68 45	70 46	65 57	67 56	70 57	68 48		68.9 56.0		
KAPOHO BEACH 93.11	MAX MIN	84 70	82 68	84 69	85 69	80 69	76 72	82 68	81 71	80 70	81 66	80 67	79 69	80 69	79 67	78 68	80 68	80 67	78 67	79 66	79 66	77 66	79 61	80 61		80 65	80 66	81 65	81 63	83 63	74 62	80.0 67.0	
KONA (KAILUA) 68.3	MAX MIN	85 69			86 71	86 71	80 73	80 72	85 71		85 68	85 69	84 71	83 69	85 69		84 68	83 69	83 65							82 61	82 66	82 66					
KULANI CAMP 79	MAX MIN	69 54	65 42	65 52	66 51	68 44	63 54	64 53	62 48	62 57	59 44	58 48	60 48	60 46	60 46	55 45	60 44	60 47	53 46	53 43		54 41	56 24	56 19	59 40	59 24	64 27	62 27	62 20	65 21	63 21	60.7 47.0	
MAUNA KEA OBS 111.2	MAX MIN	47 34	47 35	47 29	42 29	44 30	38 30	40 29	47 26	43 31	35 25	35 22	35 21			42 28	45 18	45 19	34 18	35 19	41 19	44 24			40 24	43 27	46 27	36 20	37 21		41.2 25.7		
MAUNA LOA SLOPE OBS	MAX MIN	52 35	52 37	53 34	55 37	46 37	42 36	45 33	50 32	52 32	50 33	45 30	44 30	43 29	50 34	49 31	41 30	49 31	54 33	50 32	39 26	43 24	42 23	49 28	52 37	45 38	47 32	49 31	54 32	47 32	44 32	48 32	47.8 32.0
MOUNTAIN VIEW 91	MAX MIN	72 62	74 60	72 60	74 60	79 62	73 65	72 61	73 62	75 66	72 63	73 59	70 61	72 60	69 59	69 57	70 58	73 59	70 59	67 59	69 58	69 52	72 53	74 53	74 54	74 52	69 58	74 57	70 58	73 58	66 55	71.7 58.7	
NAALEHU 14	MAX MIN	80 68	75 64	74 64	78 64	80 64	74 66	74 67	77 64	75 63	72 61	78 62	78 65	79 65	78 63	77 64	73 63	74 64	77 64	74 63	70 65	76 55	78 55	74 55	80 56	74 59	73 55	80 57	77 56	76 62	74 59	75.7 61.5	
DOKALA 223	MAX MIN	80 65	79 68	78 70	81 67	81 66	75 65	77 68	78 66	75 67	75 66	76 65	76 65	77 64	74 65	74 64	77 64	77 66	75 63	72 66	73 63	74 63	72 61	74 63	75 64	75 62	69 64	73 64	74 62	76 63	69 62	75.3 64.7	
OPIHIHALE 2 24.1	MAX MIN	83 59	81 60	80 59	85 61	75 65	76 59	80 63	77 58	80 59	80 59	79 59	76 59	75 56	78 58	77 59	77 57	78 54	77 58	72 51	77 51	76 50	76 55	79 57	77 54	78 55	76 55	77 58	70 55	77 57		77.5 57.4	
PUUKOHOLA HEIAU 98.1	MAX MIN	87 65	87 65	88 65	85 65	86 69	80 69	85 69	88 66	87 67	88 69	88 68	89 72	85 68	82 63	84 63	90 64	90 66	90 65	85 63	85 66	82 63	83 61	83 63	85 64	85 62	85 64	85 62	85 63	85 64	81 59	85.4	
SOUTH KONA 2.31	MAX MIN	79 60	76 61	78 62	76 58	76 63	70 61	71 61	76 57	75 61	73 59	75 58	72 60	75 60	75 59	74 62	73 59	74 58	75 60	68 59	71 56	74 55	72 52	69 50	72 50	70 55	67 57	73 52	75 50	71 52	73 56	65 54	73.0 57.3
UPOLU POINT USCG 159.2	MAX MIN	82 71	81 67	81 68	83 70	85 70	79 67	78 69	80 64	79 69	79 68	78 67	79 67	79 63	74 59	77 65	77 64	77 61	79 64	77 65	77 66	77 65	78 64	78 64	78 65	79 66	78 66	78 68	79 70	80 68	80 67	75 66	78.7 66.2

SEE REFERENCE NOTES FOLLOWING STATION INDEX

# DAILY TEMPERATURES

HAWAII AND PACIFIC  
DECEMBER  
1978

STATION		DAY OF MONTH																															AVERAGE	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
PACIFIC																																		
• • •																																		
EAST OF 180TH MERIDIAN																																		
CANTON ISLAND	MAX MIN	89 75	89 80		90 77	89 75	89 77	92 76	90 74	92 78		92 77	92 78	91 79	90 77	91 76	91 74	91 79	90 78	91 80	85 77	88 72	84 72		89 76	89 76	85 73	89 80	90 73		89.5 76.4			
JOHNSTON IS WSO AP	MAX MIN	83 76	84 77	84 77	79 74	80 74	81 76	82 75	81 74	82 73	82 74	80 75	81 72	79 72	80 77	80 75	79 73	78 70	78 73	80 76	79 74	79 72	79 75	78 72	79 73	80 74	80 73	79 72	78 71	78 73	78 71	80.0 73.6		
FRENCH FRIGATE SHOALS	MAX MIN	76 70	80 72	80 70	75 65	73 68	74 68	76 69	79 68	79 69	77 68	78 68	80 67	76 70	76 64	76 69	76 66	78 67	78 68	77 71	78 69	78 66	77 67	78 66	75 69	75 68	75 68	77 69	78 67	78 69	72 64	73 64	76.7 67.8	
MIDWAY SAND ISLAND	MAX MIN																																	
PAGO PAGO WSO AP	MAX MIN	87 74	89 73	90 76	86 74	86 73	86 76	82 74	81 76	84 76	87 78	86 78	87 78	87 79	85 71	85 73	87 78	87 74	86 75	86 75	86 80	86 79	86 76	83 78	85 73	86 72	83 76	83 76	88 76	87 79	87 78	91 76	86.0 75.8	
• • •																																		
WESTERN PACIFIC ISL. NORTH OF 12 N																																		
ANDERSEN AFB GUAM	MAX MIN	81 75	81 77	82 76	81 77	81 74	82 76	82 77	81 77	79 76	81 75	81 75	82 76	81 76	81 75	81 75	81 74	81 74	81 74	81 73	80 75	81 75	81 73	81 76	82 74	81 77	82 76	81 76	81 74	81 72	81 75	81 76	81.1 75.2	
CLARK AFB LUZON	MAX MIN	82 68	84 68	86 68	86 72	88 73	88 70	88 72	88 72	88 73	90 70	86 73	88 72	86 75	85 73	85 73	86 75	86 77	86 75	91 75	90 73	88 75	86 73	86 73	81 73	81 73	82 72	88 73	90 73	84 72	82 70	84 68	87 68	86.7 72.1
GUAM NAS	MAX MIN																																	
GUAM WSMO	MAX MIN	83 74	84 75	84 72	84 71	84 75	84 75	84 76	84 75	83 72	84 72	84 70	85 74	83 70	83 72	84 72	84 68	84 67	84 68	84 65	84 68	84 74	83 73	84 76	83 73	83 76	85 76	84 76	84 68	84 74	85 70	84 76	83 74	83.8 72.3
INARAJAN - NASA	MAX MIN	85 74	85 73	85 73	85 71	85 70	85 69	85 69	86 67	86 72	86 73	86 73	86 71	86 72	85 73	85 74	86 74	86 71	86 71	86 70	84 70	85 70	86 70	85 74	86 70	85 74	85 72	85 73	85 71	86 70	86 70	86 68	85.4 71.4	
SAIPAN LORAN	MAX MIN	81 77	85 74	87 69	87 65	86 70	85 80	84 76	86 79	87 80	84 78	85 69	85 79	86 77	87 75	87 75	87 69	86 69	83 73	86 69	86 70	86 74	87 74	86 69	83 77	86 79	86 78	88 75	86 69	86 77	86 75	85.7 74.0		
WAKE ISLAND WSO AP	MAX MIN	86 76	86 76	86 77	85 76	85 77	86 77	86 77	81 75	83 77	84 77	84 75	84 73	84 76	84 75	85 75	84 75	84 74	83 75	85 76	82 74	84 73	85 77	84 75	84 77	84 77	84 75	80 73	82 74	83 74	83 74	84.0 75.3		
• • •																																		
CAROLINE AND MARSHALL ISLANDS																																		
ENWETAK	MAX MIN																																	
FALALOP I ULITHI ATOLL	MAX MIN																																	
KAPINGAMARANGI ATOLL	MAX MIN																																	
KOROR WSO	MAX MIN	91 75	84 74	88 78	89 77	90 76	89 76	89 76	89 76	84 75	83 74	87 76	88 78	89 78	88 78	88 75	89 75	83 75	88 75	88 75	88 74	88 74	88 77	89 77	88 75	87 76	87 76	88 75	88 75	90 76	88 76	88 76	87.8 75.8	
KWAJALEIN MISSILE RGN	MAX MIN	88 80	87 75	87 77	86 80	87 80	87 78	86 79	86 81	87 79	86 75	86 77	86 76	86 79	86 76	86 77	87 80	86 79	86 79	86 79	86 79	86 78	87 77	87 79	86 75	84 74	86 75	85 78	87 77	86 78	86 77	86.3 77.7		
LELE I KOSRAE	MAX MIN	91 75	89 74	89 74	88 74	89 76	88 74	87 74	87 72	87 72	86 73	87 73	89 76	90 75	90 73	90 75	90 74	88 74	89 75	90 75	90 78	90 76	90 76	90 74	90 76	89 77	89 73	89 73	89 73	89 75	88.9 74.4			
MAJURO WSO AP	MAX MIN	85 76	86 74	85 74	85 76	85 72	84 73	85 73	82 71	83 72	86 75	86 75	87 76	86 78	85 75	86 76	86 76	86 77	86 76	86 77	86 78	86 79	86 79	86 74	86 78	86 74	83 74	86 74	83 73	84 73	85 77	85 76	85.3 75.2	
METALANIM	MAX MIN	89 75	87 76	88 72	85 75	87 78	87 75	88 76	84 74	83 74	83 73	86 77	88 77	84 77	85 76	85 76	86 76	86 75	86 76	87 76	85 79	86 77	86 77	85 74	85 78	86 76	86 75	86 75	85 79	86 74	86 76	85.7 75.8		
PONAPE WSO	MAX MIN	91 71	89 76	90 73	85 74	89 79	90 75	89 78	85 75	82 74	82 71	89 76	90 74	87 75	88 74	86 75	88 74	88 75	90 76	89 79	89 76	89 79	88 75	89 77	88 76	88 74	88 74	88 76	88 77	88 77	87.9 75.3			
SATAWAN ATOLL	MAX MIN																																	
TRUK MOEN I WSO AP	MAX MIN	88 80	87 77	88 77	87 75	87 75	88 75	88 79	85 75	87 75	85 73	87 77	85 76	88 77	87 79	83 76	86 78	87 79	88 79	88 80	87 80	87 79	87 79	87 79	87 78	86 74	85 74	86 79	86 79	87 75	87 79	87 79	86.7 77.3	
WOLEAI ATOLL	MAX MIN	90 74	87 74	89 77	89 77	89 75	90 75	90 73	90 73	90 73	82 71	87 75	90 70	84 74	87 77	89 77	89 78	89 78	88 76	90 75	88 75	88 79	89 77	89 75				89 75	89 78	90 77	90 79	88.6 75.7		
YAP WSO AP	MAX MIN	86 74	88 74	87 75	88 79	88 78	87 76	88 76	87 75	88 74	87 75	87 74	85 74	86 76	86 73	87 76	87 74	87 75	87 77	87 76	86 73	87 74	87 76	87 74	88 74	87 74	87 76	87 75	88 75	87 76	87 75	87.0 75.1		

SEE REFERENCE NOTES FOLLOWING STATION INDEX

# EVAPORATION AND WIND

HAWAII AND PACIFIC  
DECEMBER 1978

STATION		DAY OF MONTH																															TOTAL OR AVG.	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
HAWAII																																		
" " "																																		
ISLAND OF KAUAI																																		
LIHUE WSO AP 1020.1		EVAP	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	.30	.30	.27	.22	.39	.23	.25	.19	.17	.15	.20	.22	.26	.22	.20	-	
		WIND	124	181	83	104	38	94	249	-	-	-	-	-	-	-	-	-	-	273	311	302	148	139	82	67	68	91	140	114	81	81	-	
		MAX	-	-	-	-	-	77	-	-	-	-	-	-	-	-	74	73	73	68	67	71	79	81	82	83	80	83	83	84	86	80	-	
		MIN	-	-	-	-	-	58	-	-	-	-	-	-	-	-	62	61	61	60	60	57	55	58	57	58	58	55	59	55	54	53	-	
" " "																																		
ISLAND OF OAHU																																		
HONOLULU OBSERV 702.2		EVAP	.15	.22	.24	.20	.15	.15	.11	.15	.15	.15	.20	.15	.28	.07	.15	.20	.30	.15	.16	.16	.17	.30	.16	.09	.15	.20	.17	.45	.21	.15	.18	5.72
		WIND	18	18	17	48	44	53	32	18	23	19	25	55	69	46	43	62	67	51	50	45	48	30	43	11	8	15	17	31	29	13	20	1068
		MAX	85	86	87	87	80	87	80	79	83	82	80	81	80	74	78	75	78	77	77	75	78	74	77	79	78	81	80	78	76	76	76	79.5
		MIN	64	68	65	65	65	64	64	65	63	64	65	63	64	62	62	61	62	63	62	61	60	56	55	57	57	56	58	58	59	59	56	61.4

SEE REFERENCE NOTES FOLLOWING STATION INDEX



# EVAPORATION AND WIND

HAWAII AND PACIFIC  
OCTOBER 1978

STATION	DAY OF MONTH																															TOTAL OR AVG.	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
PACIFIC																																	
■ ■ ■ EAST OF 180TH MERIDIAN																																	
JOHNSTON IS W50 AP	EVAP	.23	.23	.21	.33	.33	.30	.49	.25	.23	.26	.23	.26	.15	.23	.22	.31	-	-	.28	.31	.27	.27	.32	.25	.29	.34	.22	.26	.31	.34	.37	8.658
	WIND	163	192	118	343	275	246	265	222	248	226	269	263	331	300	292	363	296	199	214	173	221	312	198	139	189	150	155	131	149	187	258	7087
PAGO PAGO W50 AP	EVAP	.35	.30	.20	.12	.13	.20	.20	-	.15	.06	.35	■	.33	-	-	.16	.23	.32	.38	.35	.33	.23	-	.42	-	.11	.06	-	-	-	.14	-
	WIND	38	60	51	27	28	33	55	162	190	330	173	■	181	118	155	139	145	176	193	168	168	182	203	142	107	157	87	108	131	169	73	3949
	MAX	101	97	99	89	94	98	85	92	87	95	95	-	96	90	88	91	90	90	92	94	95	89	86	89	95	90	90	91	90	87	88	91.8
	MIN	75	75	77	73	72	74	70	75	75	75	75	-	78	71	70	74	74	74	75	73	73	74	74	70	74	73	73	75	77	75	77	74.0
■ ■ ■ WESTERN PACIFIC ISL. NORTH OF 12 N																																	
GUAM W50	EVAP	.09	.31	.25	.22	.14	.20	.15	.22	.17	.19	.17	.24	.30	.26	.16	.15	.26	.09	.07	.18	.23	.12	.18	.12	.20	.20	.31	.21	.11	.21	.24	5.95
	WIND	147	182	128	180	167	168	160	199	188	207	207	142	164	175	131	78	54	56	44	46	97	132	139	116	185	205	240	139	71	94	152	4393
	MAX	84	84	85	84	84	85	86	84	84	83	86	87	83	84	84	85	88	87	89	88	87	86	86	84	84	86	83	86	86	87	82	85.2
	MIN	73	71	68	71	72	72	71	71	68	69	71	70	70	71	70	72	67	70	66	68	71	71	69	70	69	67	69	67	69	70	68	69.7
■ ■ ■ CAROLINE AND MARSHALL ISLANDS																																	
YAP W50 AP	EVAP	.55	.69	.25	.20	.05	.15	.44	.24	.30	.21	.22	.08	.05	.25	.30	.18	.05	.25	.17	.20	.23	.25	.27	.17	.22	.24	.25	.20	.18	.23	.16	7.23
	WIND	74	141	84	90	75	110	95	107	138	126	128	114	125	115	98	73	40	68	69	64	75	117	111	88	112	111	116	103	62	88	83	3000
	MAX	86	92	91	96	93	95	93	96	92	91	85	82	88	93	95	93	88	94	95	91	93	93	97	92	90	91	92	96	91	90	88	91.7
	MIN	76	77	75	75	76	76	76	76	78	75	76	75	75	75	75	74	76	75	75	75	74	74	73	75	75	75	76	76	75	75	74	75.3

SEE REFERENCE NOTES FOLLOWING STATION INDEX

## STATION INDEX

HAWAII AND PACIFIC  
DECEMBER 1978

STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES				OBSERVER
								TEMP.	PRECIP.	EVAP.	SPECIAL (SEE NOTES)	
HAWAII												
ISLAND OF KAUAI												
ALEXANDER RESV 983	0140	02	KOLOA	2	21 57	159 32	1610				C	MC BRYOE SUG CO LTO
ANAHOLA 1114	A 0145	01	KAWAIHAU	1	22 08	159 18	180		7A		C	LIHUE PLANTATION CO LTO
BRYOWOOD STA 985	A 0240	02	KOLOA	2	21 56	159 32	720		7A			MC BRYOE SUG CO LTO
EAST LAWA 934	A 0456	02	KOLOA	2	21 55	159 30	440		7A			MC BRYOE SUG CO LTO
ELEELE 927	A 0470	02	KOLOA	2	21 54	159 35	150		6A			MC BRYOE SUG CO LTO
HALAULA 1110	A 0935	01	KAWAIHAU	1	22 07	159 19	253		7A			LIHUE PLANTATION CO LTO
HALENANAO 1006	A 1038	02	LIHUE	2	21 58	159 26	490		8A			LIHUE PLANTATION CO LTO
HANAHANAPUNI 1055.2	1140	02	KAUAI	2	22 03	159 25	600				C	LIHUE PLANTATION CO LTO
HANAIEI TUNNEL 1053	A 1170	01	KAWAIHAU	1	22 05	159 28	1218		MO			U S GEOLOGICAL SURVEY
HUKIPO 945	2161	03	WAIIMEA	3	21 59	159 41	800		8A			KEKAHA SUGAR CO LTO
ILIILILUA INTAKE 1050	A 2222	02	LIHUE	2	22 02	159 28	1050		VAR			LIHUE PLANTATION CO LTO
INTAKE WAINIHA PC 1086A	2227	01	HANAIEI	1	22 09	159 34	690		WI			MC BRYOE SUG CO LTO
KANALOHULUHULU 1075	3099	03	WAIIMEA	3	22 08	159 40	3600	7A	7A		C	STATE DIVISION OF PARKS
KANEHA RESERVOIR 1092	A 3104	01	KAWAIHAU	1	22 08	159 23	830		7A			LIHUE PLANTATION CO LTO
KAPAA STABLES 1104	3159	01	KAWAIHAU	1	22 05	159 20	175				C	LIHUE PLANTATION CO LTO
KEALIA 1112	A 3982	01	KAWAIHAU	1	22 06	159 19	9		7A			LIHUE PLANTATION CO LTO
KEKAHA 944	4272	03	WAIIMEA	3	21 58	159 43	9		8A		C	KEKAHA SUGAR CO LTO
KILAUEA 1134	A 4561	01	HANAIEI	1	22 13	159 25	320		7A		C	NICK RAPOZO
KILAUEA POINT 1133	4568	01	HANAIEI	1	22 14	159 24	180	7A	7A			MRS ELIZABETH MACIOLEK
KOLO 1033	4735	03	WAIIMEA	3	22 04	159 46	36		7A			KEKAHA SUGAR CO LTO
KOLOA 936	A 4742	02	KOLOA	2	21 55	159 28	240		8A			MC BRYOE SUG CO LTO
KOLOA LN (MAK) 940.1	4748	01	KAUAI	2	21 52	159 27	52	7A	7A			AUSCG LORAN STATION
KOLOA MAUKA 994	A 4750	02	KOLOA	2	21 57	159 29	640		7A			MC BRYOE SUG CO LTO
KUKUIULA 935	A 4950	02	KOLOA	2	21 54	159 30	100		6A			MC BRYOE SUG CO LTO
LIHUE VARIETY ST 10621A	5560	02	LIHUE	2	22 01	159 23	380		7A		C	LIHUE PLANTATION CO LTO
LIHUE 1020	A 5575	02	LIHUE	2	21 59	159 22	207		7A			LIHUE PLANTATION CO LTO
LIHUE WSO AP 1020.1	R 5580	02	LIHUE	2	21 59	159 21	103	8A	8A	7A	J	NATL WEATHER SERVICE
MAKAWELI 965	A 5864	03	WAIIMEA	3	21 55	159 38	140		7A			OLOKELE SUGAR CO
MANA 1026	6082	03	WAIIMEA	3	22 02	159 46	20		8A			KEKAHA SUGAR CO LTO
MOHIHI UPR CROSS 1083	A 6433	01	WAIIMEA	3	22 07	159 36	3500		M10			U S GEOLOGICAL SURVEY
MOLOAA 1145	A 6529	01	KAWAIHAU	1	22 11	159 20	330		7A			THEODORE JAVELLANA JR
MOUNT WAIALEALE 1047	R 6565	03	WAIIMEA	2	22 04	159 30	5148		M10			U S GEOLOGICAL SURVEY
NIU RIGGE 1035	6850	03	WAIIMEA	3	22 02	159 44	1250	6A	6A			KEKAHA SUGAR CO LTO
N WAILUA OITCH 1051	A 6888	02	LIHUE	2	22 04	159 28	1110		7A			LIHUE PLANTATION CO LTO
N WAILUA RIVER 1055	A 6893	02	KIHAU	2	22 04	159 26	650		MO			LIHUE PLANTATION CO LTO
PH WAINIHA 1115	8155	01	HANAIEI	1	22 12	159 34	101		6A		C	MC BRYOE SUG CO LTO
PRINCEVILLE RANCH 1117	8165	01	HANAIEI	1	22 13	159 29	295		9A		C	PRINCEVILLE RANCH INC
PUEHU RIGGE 1040	8205	03	WAIIMEA	3	22 01	159 42	1660		8A			KEKAHA SUGAR CO LTO
PUHI 1013	A 8217	02	LIHUE	2	21 58	159 24	329		8A			LIHUE PLANTATION CO LTO
WAIHAWA 930	A 8941	02	KOLOA	2	21 54	159 34	215		7A		C	MC BRYOE SUG CO LTO
WAIHAI LOWER 1054	8958	02	LIHUE	2	22 01	159 27	565	6A	6A			LIHUE PLANTATION CO LTO
WAIHAI UPPER 1052	8966	02	LIHUE	2	22 01	159 28	780		6A			LIHUE PLANTATION CO LTO
WAIHAWA 943	9253	03	WAIIMEA	3	21 59	159 43	10		8A			KEKAHA SUGAR CO LTO
WAILUA KAI 1065	A 9467	02	LIHUE	2	22 02	159 21	50		7A			LIHUE PLANTATION CO LTO
WAIIMEA 947	9629	03	WAIIMEA	3	21 58	159 41	20	8A	8A			KEKAHA SUGAR COMPANY
WEST LAWA 931	A 9955	02	KOLOA	2	21 54	159 31	210		6A			MC BRYOE SUG CO LTO
ISLAND OF OAHU												
AHUIMANU LOOP 839.12	0055	01	KOOLAUPOKO	1	21 26	157 51	320				C	OR DON MITCHELL
ALOHA STADIUM-HALAWA	0172	03	OAHU	3	21 23	157 56	40	8A	8A			ALOHA STADIUM
BERETANIA PUMPING STA	0211	02	HONOLULU	2	21 19	157 51	20		9A			BOARD OF WTR SUPPLY
B Y U LAIE 903.1	0240	01	KOOLAUPOKO	1	21 39	157 56	20	12M	12M			B Y U-HAWAII CAMPUS
CAMPBELL INO PK 702.5	0248	02	OAHU	3	21 19	158 07	10		8A			CHEVRON U S A INC
CAMP 84 807	0300	03	EWA	3	21 26	158 04	760				C	OEL MONTE CORPORATION
COCONUT ISLAND 840.1	0350	01	KOOLAUPOKO	1	21 26	157 47	15		8A			H INST MARINE BIOLOGY
OWSETT HIGHLOS 780.8	0438	02	HONOLULU	2	21 21	157 50	565				C	J L BANNING
EWA PLANTATION 741	0507	03	EWA	3	21 21	158 02	5		7A			OAHU SUGAR COMPANY
HALAWA SHAFT 771.2	0964	02	HONOLULU	2	21 23	157 54	170				C	NWS SNS AREA II PRH
HAWAII KAI CRSE 724.19	1308	02	OAHU	2	21 18	157 39	21				C	HAWAII KAI GOLF COURSE
HELEMANO INTAKE 881	1384	05	WAIALUA	5	21 33	158 00	1274				C	WAIALUA SUGAR CO INC
HOKULOA 725.2	A 1540	03	EWA	3	21 24	158 06	2260				C	WILLIAM M KIRKPATRICK
HONOLULU OBSERV 702.2	1918	03	EWA	3	21 19	158 00	5	9A	9A	9A		NATL WEATHER SERVICE
HONOLULU WSO 703 AP	A 1919	02	HONOLULU	2	21 20	157 55	7	M10	M10		C	NATL WEATHER SERVICE
KAENA POINT 841.3	2410	04	WAIALUA	4	21 34	158 15	1240		9A			U S AIR FORCE
KAHANA 883	A 2462	01	KOOLAULOA	1	21 31	157 54	800		WI			WAIHOLE WATER CO LTO
KAHUKU 912	A 2570	01	KOOLAULOA	1	21 42	157 59	15					KIULIMA HOTEL

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ISLAND OF OAHU													
KAILUA FIRE STA 791.3	2683	01	KOOLAUPOKO	1	21 24	157 45	10						KAILUA FIRE STATION
KALIHI RES SITE 777	R 2960	02	HONOLULU	2	21 23	157 50	910		MIO				BOARD OF WTR SUPPLY
KANEOME MAUKA 781	3113	01	KOOLAUPOKO	1	21 25	157 49	325	7A	7A				STATE HOSPITAL
KAPALAMA 773	A 3268	02	HONOLULU	2	21 21	157 52	614		8A				KAMEHAMEHA SCHOOLS
KAWAIHAPAI 841	A 3734	05	WAIALUA	5	21 35	158 11	40		7A				WAIALUA SUGAR CO INC
KEMOO CAMP 8 855	A 4318	05	WAIALUA	5	21 33	158 05	725		7A				WAIALUA SUGAR CO INC
KOOLAU DAM 833	A 4766	05	WAIHAWA	5	21 30	157 58	1160		8A				US ARMY SCHOFIELD BRKS
LULUKU 781.7	5655	01	KOOLAUPOKO	1	21 24	157 49	240				C		NATL WEATHER SERVICE
MAKAKA PUMP 800.2	5782	04	OAHU	4	21 29	158 12	400				C		CAPITAL INVESTMENT CO
MAKAKILO 730.1	5789	03	OAHU	3	21 21	158 06	300		6A				NEAL ADAMS
MANOA 712.1	6122	02	HONOLULU	2	21 19	157 49	220		7A				CHARLES COOKE
MANOA LYON ARBORETUM	6128	02	OAHU	2	21 20	157 48	500	8A	8A				LYON ARBORETUM
MANOA TUNNEL 2 716	R 6130	02	HONOLULU	2	21 20	157 48	650		MIO				BOARD OF WTR SUPPLY
MAUNAWILI 787.1	6222	01	KOOLAUPOKO	1	21 21	157 46	395				C		EXP STN H 5 P A
MOANALUA 770	6395	02	HONOLULU	2	21 21	157 54	20		9A				JOHN A ROXBURGH
MOUNT KAALA 844	6553	04	WAIANAE	4	21 31	158 09	4025				C		FAA
NUUANU RES 4 783	6928	02	HONOLULU	2	21 21	157 49	1048		MIO				BOARD OF WTR SUPPLY
NUUANU RESERV 5 775	A 6933	02	HONOLULU	2	21 21	157 50	410		WI				BOARD OF WTR SUPPLY
OPAEULA 870	A 7150	05	WAIALUA	5	21 34	158 02	1060	7A			C		WAIALUA SUGAR CO INC
PAIKO OR 723.4	7540	02	HONOLULU	2	21 17	157 44	10		6P				O L GRUBB
PALI GOLF COURSE 788.1	7656	01	OAHU	1	21 23	157 47	480		10A				CC DEPT PKS RECREATION
PALOLO VALLEY 718	R 7664	02	HONOLULU	2	21 20	157 46	995		MIO				BOARD OF WTR SUPPLY
PAUOA FLATS 784	R 7810	02	HONOLULU	2	21 21	157 48	1640		MIO				BOARD OF WTR SUPPLY
PEARL COUNTRY CL 760.2	7942	03	OAHU	3	21 23	157 56	120				C		PEARL COUNTRY CLUB OF HA
PUNALUU PUMP 905.2	8314	01	KOOLAUPOKO	1	21 35	157 54	20				C		NATL WEATHER SERVICE
PUNCHBOWL CRATER 709	A 8316	02	HONOLULU	2	21 19	157 51	360		8A				NAT MEM CEMETERY
PUPUKA HEIGHTS 896.4	8342	01	WAIALUA	1	21 39	158 02	900				E		JACK N WHEELER
PUU MANAWAHUA 725.6	8500	03	OAHU	3	21 23	158 06	1690		8A				RICHARD DAVIS
TANTALUS 2 780.5	8738	02	HONOLULU	2	21 20	157 50	1325		7A				R E WHITE
UNIV OF HAWAII 713	A 8815	02	HONOLULU	2	21 18	157 49	79		8A				UNIVERSITY OF HAWAII
WAIHAWA DAM 863	8945	05	WAIHAWA	5	21 30	158 03	854				C		WAIALUA SUGAR CO INC
WAIHAOLE 837	A 8964	01	KOOLAUPOKO	1	21 28	157 53	745		8A		C		WAIHAOLE WATER CO LTD
WAIALAE KAHALA 715	9185	02	HONOLULU	2	21 16	157 46	10		7A				WAIALAE COUNTRY CLUB
WAIALEE 896.3	9190	01	KOOLAUPOKO	1	21 41	158 02	33	8A	8A				WAIALEE LIVESK RES FARM
WAIALUA 847	A 9195	05	WAIALUA	5	21 35	158 07	32	7A	7A		C		WAIALUA SUGAR CO INC
WAIANAE 798.2	A 9231	04	WAIANAE	4	21 27	158 11	10		7A				BEN MAYES
WAIANA 836	A 9261	03	EWA	3	21 28	157 56	800		MO				WAIHAOLE WATER CO LTD
WAIKANE 885	A 9340	01	KOOLAUPOKO	1	21 30	157 53	760		WI				WAIHAOLE WATER CO LTD
WAIKIKI 717.2	9397	02	HONOLULU	2	21 16	157 49	10	8A	8A				HONOLULU ZOO
WAILUPE VLY SCH 723.6	9500	02	HONOLULU	2	21 18	157 45	180				E		WAILUPE VALLEY SCHOOL
WAIMANALO EXP FM 795.1	9523	01	KOOLAUPOKO	1	21 20	157 43	60		7A				U H WAIMANALO EXP FARM
WAIMANALO NONOKI 795.2	9534	01	OAHU	1	21 20	157 43	120				E		WAIMANALO EXP FARM
WAIMEA 892	9593	05	WAIALUA	5	21 38	158 04	330				C		WAIALUA SUGAR CO INC
WAIPIHAU 750	A 9738	03	EWA	3	21 23	158 01	59		8A				WAIHAOLE WATER CO LTD
WILHELMINA RISE 721	R 9980	02	HONOLULU	2	21 18	157 47	1100		MIO				BOARD OF WTR SUPPLY
ISLAND OF MOLOKAI													
KALAUPAPA 563	A 2896	01	MOLOKAI	1	21 12	156 59	30		8A				KALAUPAPA SETTLEMENT
KAUNAKAKAI 536	3541	01	MOLOKAI	1	21 06	157 01	12		7A				MOLOKAI RANCH LTD
KAUNAKAKAI MAUKA 536.5	3547	01	MOLOKAI	1	21 06	157 01	70				E		MOLOKAI GENERAL HOSP
KEONELELE PENS 551	A 4394	01	MOLOKAI	1	21 12	157 12	560		VAR				MOLOKAI RANCH CO LTD
KUALAPUU 534	A 4778	01	MOLOKAI	1	21 09	157 02	825				C		OEL MONTE CORPORATION
MAUNALO 511	A 6190	01	MOLOKAI	1	21 08	157 13	1070				E		MOLOKAI RANCH CO LTD
MOLOKAI AP 524	6534	01	MOLOKAI	1	21 09	157 06	450	8A	8A				ALOHA AIRLINES
PUU O HOKU RANCH 542.1	8549	01	MOLOKAI	1	21 09	156 44	700				C		CHARLIE APIA (FOREMAN)
WAIKOLU 540	A 9404	01	MOLOKAI	1	21 08	156 55	3550		WI				MOLOKAI RANCH CO LTD
ISLAND OF LANAI													
KANEPUU 690	A 3130	01	LAHAINA	1	20 52	157 00	1650		WI				U S O A
KAUMALAPAU HARBOUR 658	3461	01	LAHAINA	1	20 47	157 00	30		8A				OOLE COMPANY
LANAI AIRPORT 656	5275	01	LAHAINA	1	20 48	156 57	1300	8A	8A				HAWAIIAN AIR
LANAI CITY 672	A 5286	01	LAHAINA	1	20 50	156 55	1620	7A	7A		E		OOLE COMPANY
LANAIHALE 684	A 5301	01	LAHAINA	1	20 49	156 53	3370		WI				U S O A
MAHANA 694	A 5704	01	LAHAINA	1	20 52	156 55	1430		MO				U S O A
MALAEUA 676	A 6012	01	LAHAINA	1	20 46	156 55	1150		WI				KOELE COMPANY
WAIKAEKUA 685	A 9021	01	LAHAINA	1	20 47	156 52	2000		WM				KOELE COMPANY

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ISLAND OF MAUI														
AUWAHI 252	A 0175	02	HANA	2	20 37	156 20	2060		VAR				ULUPALAKUA RCH CO LTO	
FIELD 46 474	0541	04	LAHAINA	4	20 59	156 38	1050					C	MAUI LANO-PINEAPPLE CO	
HAELAAU 477	A 0790	04	LAHAINA	4	20 57	156 36	2980		MO				MAUI LANO-PINEAPPLE CO	
HALEAKALA 8 E S 434	A 0995	01	MAKAWAO	1	20 51	156 18	2100		7A				U OF H AGRIC EXP STA	
HALEAKALA RANCH 432	A 0999	01	MAKAWAO	1	20 50	156 19	1850		8A				HALEAKALA RANCH CO	
HALEAKALA R S 338	1004	02	MAKAWAO	2	20 46	156 15	7030	8A	8A				HALEAKALA NAT PARK	
HALIIMALE 423	A 1075	01	MAKAWAO	1	20 52	156 21	1070		3A				MAUI LANO-PINEAPPLE CO	
HAMAKUPOKO 485	1086	01	MAKAWAO	1	20 55	156 21	320		5A				HAWAIIAN COM & SUG CO	
HANA 354	1122	01	HANA	1	20 45	155 59	120					C	HARRY HASEGAWA	
HANA AIRPORT 355	1125	01	HANA	1	20 48	156 01	61	8A	8A				ROYAL HAWAIIAN AIRLINES	
HOLUA CABIN 259.5	A 1552	02	MAKAWAO	2	20 45	156 13	6930		MO				HALEAKALA NATL PARK RGS	
HONOKOHU 480	A 1882	04	LAHAINA	4	20 58	156 36	870		MO				MAUI LANO-PINEAPPLE CO	
HONOKOHU 493	A 1887	04	LAHAINA	4	21 00	156 39	135		6A				MAUI LANO-PINEAPPLE CO	
HONOLUA FIELD 49 494	A 1914	04	LAHAINA	4	21 01	156 38	125		MO				MAUI LANO-PINEAPPLE CO	
HONOMANU GULCH 341	A 1935	01	MAKAWAO	1	20 47	156 14	6280		MO				HALEAKALA RANCH CO	
KAAHAPALI AP 453.1	2307	04	LAHAINA	4	20 56	156 42	8	8A	8A				AMFAC PROPERTIES INC	
KAHAKULOA MAUKA 482.3	2453	03	WAILUKU	4	20 59	156 33	650					C	EDWARD CHANG	
KAHOMA INTAKE 374	A 2552	04	LAHAINA	4	20 54	156 38	2000		MO				PIONEER MILL CO LTO	
KAHULUI WSO 398 AP	R 2572	03	WAILUKU	3	20 54	156 26	48	MIO	MIO			C J	NATL WEATHER SERVICE	
KAILIILI 436	A 2630	01	MAKAWAO	1	20 51	156 16	2520		MO				E MAUI IRR CO LTO	
KAILUA 446	2679	01	MAKAWAO	1	20 54	156 13	700	7A	7A				E MAUI IRR CO LTO	
KAUUA INTAKE 375	A 3433	04	LAHAINA	4	20 53	156 38	1585		WI				PIONEER MILL CO LTO	
KAUPO RANCH HOUSE 259	3576	02	HANA	2	20 39	156 08	1020					C	KAUPO RANCH CO	
KEAHUA 410	3910	03	MAKAWAO	3	20 52	156 23	480		5A				HAWAIIAN COM & SUG CO	
KEANAE 346	A 4091	01	HANA	1	20 50	156 10	980		MO				E MAUI IRR CO LTO	
KEAWAKAPU BEACH 260.2	4193	02	MAKAWAO	2	20 42	156 27	20	8A	8A			C	ALLEN L CORELL	
KIHEI 311	4489	03	WAILUKU	3	20 47	156 27	90		7A				HAWAIIAN COM & SUG CO	
KIPAHULU 258	4634	01	HANA	1	20 39	156 04	260		7A				HANA RANCH-KIPAHULU SEC	
KUKUI 380	A 4887	04	LAHAINA	4	20 54	156 35	5788		MO				MAUI LANO-PINEAPPLE CO	
KULA SANATORIUM 267	5006	02	MAKAWAO	2	20 42	156 22	3004	7A	7A				KULA SANATORIUM	
LAHAINA 361	5177	04	LAHAINA	4	20 53	156 41	45	7A	7A			C	PIONEER MILL CO LTO	
LAUNIUPOKO INTAKE 376 A	5404	04	LAHAINA	4	20 51	156 37	1280		WI				PIONEER MILL CO LTO	
LAUNIUPOKO VILLAGE 372A	5408	04	LAHAINA	4	20 51	156 39	220		7A				PIONEER MILL CO LTO	
LUPU UPPER 442	A 5665	01	MAKAWAO	1	20 53	156 15	1240		MO				E MAUI IRR CO LTO	
MAHINAHINA 466	A 5715	04	LAHAINA	4	20 57	156 40	715		7A				PIONEER MILL CO LTO	
MOKUPEA 475	A 6521	04	LAHAINA	4	20 59	156 37	1290		MO				MAUI LANO-PINEAPPLE CO	
NAKALELE FIELD 60 497 A	6645	04	LAHAINA	4	21 02	156 36	340		VAR				MAUI LANO-PINEAPPLE CO	
OLINDA 332	A 7040	01	MAKAWAO	1	20 48	156 17	4127		VAR				E MAUI IRR CO LTO	
OWALU 296.1	7059	04	LAHAINA	4	20 49	156 37	20		7A				PIONEER MILL CO LTO	
PAKKA 350	7194	01	HANA	1	20 49	156 07	1260		VAR			C	E MAUI IRR CO LTO	
PAIA 406	7566	01	WAILUKU	1	20 55	156 23	170		6A				HAWAIIAN COM & SUG CO	
PANILEIHULU 259.2	A 7674	02	HANA	2	20 41	156 08	3570		MO				KAUPO RANCH CO	
PEAHI 488.6	7952	01	MAUI	1	20 54	156 17	830					C	BERNARD RUPLINGER	
POHAKA BRIDGE 307.2	A 8060	03	WAILUKU	3	20 49	156 31	167		6A				WAILUKU SUGAR CO	
POLIPOLI SPRINGS 267.2A	8070	02	MAKAWAO	2	20 41	156 20	6150		VAR				STATE DIV OF FORESTRY	
PUNOHOKA 2 343	A 8336	01	HANA	1	20 50	156 13	2980		MO				E MAUI IRR CO LTO	
PUNENE 396	8543	03	WAILUKU	3	20 53	156 27	60		7A				HAWAIIAN COM & SUG CO	
PUU PAKI 352	A 8553	01	HANA	1	20 46	156 03	2160					S	E MAUI IRR CO LTO	
SPRECKELSVILLE 400.2	8688	03	WAILUKU	3	20 54	156 25	85		8A				HAWAIIAN COM & SUG CO	
TWIN GATES 261.3	A 8742	03	MAKAWAO	3	20 46	156 23	1310						KAONOULU RANCH	
UH AGRI RES CNTR 324.5	8743	02	MAUI	2	20 46	156 20	3050	12M	7A			C	UH MAUI AGRI RESCH CNTR	
UKULELE 333	A 8744	01	MAKAWAO	1	20 48	156 15	5230		MO				HALEAKALA RANCH CO	
UKUMEHAME 301	A 8750	04	LAHAINA	4	20 48	156 35	75		7A				PIONEER MILL CO LTO	
ULUPALAKUA RANCH 250	8760	02	MAKAWAO	2	20 39	156 24	1900		8A			E	ULUPALAKUA RCH CO LTO	
WAIKULI 364	A 8955	04	LAHAINA	4	20 54	156 40	580		8A				PIONEER MILL CO LTO	
WAIHU CAMP 484	A 9275	03	WAILUKU	3	20 55	156 31	320		6A				WAILUKU SUGAR CO	
WAIHEE VALLEY 482	A 9315	04	WAILUKU	4	20 57	156 32	300		6A				WAILUKU SUGAR CO	
WAIKAMOI 449	A 9332	01	HANA	1	20 52	156 12	1200		MO				E MAUI IRR CO LTO	
WAIKAMOI OAM 336	9335	01	MAKAWAO	1	20 49	156 14	4320					C	E MAUI IRR CO LTO	
WAIKAPU 390	A 9376	03	WAILUKU	3	20 51	156 31	370		6A				WAILUKU SUGAR CO	
WAILUA IKI 348	A 9460	01	HANA	1	20 48	156 09	2630						E MAUI IRR CO LTO	
WAILUKU 386	A 9484	03	WAILUKU	3	20 54	156 30	180		7A			S	WAILUKU SUGAR COMPANY	
WAIOPAI RANCH 256	A 9765	02	HANA	2	20 38	156 12	220		OC				HALEAKALA RANCH CO	
ISLAND OF HAWAII														
AHUA UMI 75	A 0040	05	N KONA	5	19 38	155 47	5220		MO				W H GREENWELL RANCH	
CITY OF REFUGE 27.4	0344	04	S KONA	4	19 25	155 55	15		9A				NAT HISTORICAL PARK	

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ISLAND OF HAWAII												
HAINA 214	0840	01	HAMAKUA	1	20 06	155 28	461		8A			HONOKAA SUGAR CO
HAKALAU 142	0905	02	S HILO	2	19 54	155 08	105		7A			MAUNA KEA SUGAR CO
HALEMAUMAU 52	A 1033	03	KA'U	3	19 24	155 17	3648		VAR			HAWAII NAT PARK
HALEPOHAKU 111	A 1065	02	HAMAKUA	2	19 46	155 28	9220		3P			MAUNA KEA OBSERVATORY
HAWAII VOLCNS NP HQ S4	1303	02	KA'U	2	19 26	155 16	3971	8A	8A		C	HA VOLCANOES NAT PK HQS
HAWI 168	A 1339	01	N KOHALA	1	20 14	155 50	580		6A		C	K L 80NO
HILO COUNTRY CLUB 86.6	1487	02	HAWAII	2	19 41	155 10	1600				C	REX WILLS II
HILO WSO AP 87	R 1492	02	S HILO	2	19 43	155 04	36	MIO	MIO		C	NATL WEATHER SERVICE
HOLUALOA 70	A 1557	04	N KONA	4	19 38	155 55	3220		MO			STATE DIV OF FORESTRY
HOLUALOA BEACH 68	A 1562	04	N KONA	4	19 37	155 59	14		WI			CAPT COOK CATTLE CO
HONAUNAU 27	1665	04	S KONA	4	19 25	155 53	940		7A			SHIGETO L TANAKA
HONOHINA 137	1701	02	N HILO	2	19 56	155 09	300		7A			MAUNA KEA SUGAR CO INC
HONOMU MAUKA 138	1960	02	S HILO	2	19 51	155 09	1100				C	MAUNA KEA SUGAR CO
HONUAULA 71	A 2047	04	N KONA	4	19 40	155 53	6250		MO			STATE DIV OF FORESTRY
HUALALAI 72	A 2151	04	N KONA	4	19 42	155 52	8190		MO			STATE DIV OF FORESTRY
HUEHUE 92.1	A 2156	04	N KONA	4	19 45	155 59	1960		7A			HUEHUE RANCH
KAAALA IKI 12	A 2249	03	KA'U	3	19 08	155 34	1340		WI			KA'U SUGAR CO INC
KAAWALO 29	A 2327	04	SOUTH KONA	4	19 30	155 55	1340		8A			OILLINGHAM INV CORP
KAHIAWA MAUKA 3.8	2512	03	KA'U	3	19 08	155 46	4120					RUSSELL P SMITH
KAHUA RCH HQTRS 176.3	2600	01	HAWAII	1	20 08	155 48	3240				C	KAHUA RANCH COMPANY
KAINALIU 73.2	2751	04	N KONA	4	19 32	155 56	1500	7A	7A			KONA EXPERIMENT STA
KALAOA 69.22	2887	04	HAWAII	4	19 44	155 59	2000		8A			FLOYO W MC COY
KALAPANA 1 67.8	2894	02	S HILO	2	19 20	155 02	10		VAR			HAWAII VOLCANOES NAT PK
KAMAOKA 2 S	A 3048	03	KA'U	3	19 02	155 40	1375		WI			PARKER RANCH KA'U OIV
KAMUELA 192.2	3077	01	S KOHALA	1	20 01	155 40	2670	6A	6A			PARKER RANCH
KAPAPALA RANCH 36	A 3300	03	KA'U	3	19 17	155 27	2140		6A			GORDON CRAN
KAPOHO BEACH 93.11	3368	02	HAWAII	1	19 30	154 49	10	8A	8A			H E MC NICHOLS
KAPOHO LANDING 93.S	A 3369	02	PUNA	2	19 30	154 52	290		VAR			DEPT OF PUBLIC WORKS
KAWAINUI LOWER 193	A 3770	01	HAMAKUA	1	20 05	155 39	1080		WI			HONOKAA SUGAR CO
KEAAU 92	3872	02	PUNA	2	19 38	155 02	285		8A			PUNA SUGAR CO
KEAIIWA CAMP 22.1	3925	03	KA'U	3	19 14	155 29	1700					KA'U SUGAR CO INC
KEALAKEKUA 3 29.11	3985	04	S KONA	4	19 31	155 55	1530					W H GREENWELL RANCH
KEANAKOLU CAMP 124.2	4098	02	HAMAKUA	2	19 55	155 21	5280					STATE DIV OF FORESTRY
KIOLAKAA A & F 6	A 4625	03	KA'U	3	19 04	155 38	1925		MO			STATE DIV OF FORESTRY
KIPA 89.2	A 4632	02	S HILO	2	19 44	155 09	1490		WI			MAUNA KEA SUGAR CO
KOHALA MISSION 175.1	4680	01	N KOHALA	1	20 14	155 48	537		7A			K LYMAN 80NO
KOIAWE LOWER 196	A 4685	01	HAMAKUA	1	20 05	155 38	720		WI			HONOKAA SUGAR CO
KONA (KAILUA) 68.3	A 4764	04	N KONA	4	19 39	156 00	30	8A	8A		C	CHEVRON USA
KONA VILLAGE 93.8	4765	04	N KONA	4	19 50	155 59	20		8A			KONA VILLAGE RESORT HTL
KUKAIIAU 222	4815	01	HAMAKUA	1	20 02	155 21	840		6A			LAUPAHOEHOE SUGAR CO
KUKUIHALE HIC 199	4928	01	HAMAKUA	1	20 07	155 35	980		6A			HONOKAA SUGAR CO
KUKUIHALE MILL 206	A 4938	01	HAMAKUA	1	20 08	155 34	300		6A			HONOKAA SUGAR CO
KULANI CAMP 79	5011	02	S HILO	2	19 33	155 18	5170	8A	8A			ST DEPT OF SOCIAL SER
KULANI MAUKA 76	A 5018	05	N HILO	5	19 35	155 27	8300		WI			MAUNA LOA OBSERVATORY
KULANI SCHOOL SITE 78	A 5021	02	S HILO	2	19 35	155 20	5735		WI			ST DEPT OF SOCIAL SER
LALAMILLO FLO OFF 191.1	5260	01	S KOHALA	1	20 01	155 41	2615				C	STATE DEPT OF LAND RES
LANIHAU 68.2	S330	04	N KONA	4	19 40	155 58	1530		7A			KONA EXPERIMENT STATION
LAVA TREE PARK 66.1	5460	02	PUNA	2	19 29	154 54	650				C	STATE DIVISION OF PARKS
MAKAHALAU 103	5761	02	HAWAII	1	19 59	155 33	3820		6A			PARKER RANCH
MANUKA 2	A 6134	03	KA'U	3	19 07	155 50	1760		8A			STATE DIVISION OF PARKS
MAUNA KEA 085 111.2	6183	02	HAWAII	2	19 49	155 28	13770	7P	7P			MAUNA KEA OBSERVATORY
MAUNA LOA SLOPE 085	6198	05	HAMAKUA	5	19 32	155 35	11150	MIO	MIO			MAUNA LOA OBSERVATORY
MIDDLE HOLUALOA 68.1	A 6268	04	N KONA	4	19 37	155 58	500		7A			CAPT COOK CATTLE CO
MIDDLE PEN 147.1	A 6270	01	N KOHALA	1	20 06	155 50	1380		VAR			KAHUA RANCH
MOAULA 18	A 6407	03	KA'U	3	19 11	155 30	600		WI			PARKER RANCH KA'U OIV
MOUNTAIN VIEW 91	6552	02	PUNA	2	19 33	155 07	1530	6A	6A			PUNA SUGAR CO
NAALEHU 14	A 6588	03	KA'U	3	19 04	155 35	800	8A	8A			KA'U SUGAR CO INC
NAPOOPOO 28	A 6697	04	S KONA	4	19 28	155 55	350		7A			U H KONA EXP STATION
OOKALA 223	7131	02	N HILO	2	20 01	155 17	430	6A	6A			LAUPAHOEHOE SUGAR CO
OPIHIHALE 2 24.1	7166	04	S KONA	4	19 16	155 53	1270	7A	7A			MRS LORMA TRUMAN
ORCHIO LAND EST 91.5	A 7185	02	PUNA	2	19 34	155 00	445		VAR			BOARD OF WTR SUPPLY
PAUHAU 217	7204	01	HAMAKUA	1	20 05	155 26	415		8A		C	HONOKAA SUGAR COMPANY
PAUULO 221	7312	01	HAMAKUA	1	20 03	155 22	800		7A			LAUPAHOEHOE SUGAR CO
PAHALA 21	A 7421	03	KA'U	3	19 12	155 29	870		6A			KA'U SUGAR CO INC
PAHOA 65	7457	02	PUNA	2	19 30	154 57	670		6A			PUNA SUGAR COMPANY
PAPAIIKOU 144.1	7711	02	S HILO	2	19 47	155 06	260		7A			MAUNA KEA SUGAR CO
PAPAIIKOU MAUKA 140.1	7721	02	S HILO	2	19 47	155 08	1285		7A			MAUNA KEA SUGAR CO

SEE REFERENCE NOTES FOLLOWING STATION INDEX



## STATION INDEX

HAWAII AND PACIFIC  
DECEMBER 1978

STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES				OBSERVER
								TEMP.	PRECIP.	EVAP.	SPECIAL (SEE NOTES)	
ISLAND OF HAWAII												
PIIHONUA 89	A 8051	02	S HILO	2	19 44	155 10	1730		MO			STATE DIV OF FORESTRY
POHAKULOA 107	A 8063	02	HAMAKUA	2	19 45	155 32	6511				C	STATE DIV OF PARKS
PUUKOHOLO HEIAU 98.1	8422	05	HAWAII	5	20 02	155 50	140	8A	8A			SUPT PUU HEIAU-NHS
PUU LEHUA 73	A 8460	04	N KONA	4	19 34	155 49	4880		MO			W H GREENWELL RANCH
PUU WAAWAA 94.1	8555	05	N KONA	5	19 47	155 51	2520				C	PUU WAAWAA RANCH CO
SOUTH KONA 2.31	8650	03	HAWAII	3	19 06	155 45	2650	8A	8A			MRS CAROLYN CARLSON
UPOLU POINT USCG 159.2	8830	01	N KOHALA	1	20 15	155 53	61	8A	2P			U S COAST GUARD
WAIAKEA SCD 88.2	9025	02	S HILO	2	19 40	155 08	1050		7A			SHINICHI KANESHIRO
WAIKALOA-801S CAS 95.8	9142	04	HAWAII	5	19 56	155 48	900		8A			BOISE CASCADES WA CONST

SEE REFERENCE NOTES FOLLOWING STATION INDEX

## STATION INDEX

HAWAII AND PACIFIC  
DECEMBER 1978

STATION	INDEX NO.	DIVISION	DISTRICT	DRAINAGE	LATITUDE	LONGITUDE	ELEVATION	OBSERVATION TIME AND TABLES				OBSERVER
								TEMP.	PRECIP.	EVAP.	SPECIAL (SEE NOTES)	
PACIFIC												
EAST OF 180TH MERIDIAN												
ATU'U	4060	03	TUTUILA		14 16S	170 41W	26S		4P			MARIST BROTHERS
CANTON ISLAND	4101	02	PHOENIX IS		2 46N	171 43W	8	9A	9A			ITT/FEDERAL ELEC CORP
FALESAO VILLAGE	4248	03	TA'U'MAN		14 14S	169 31W	16		8A			SOLOMULI MALU'IA
JOHNSTON IS WSO AP	R 4320	01	LINE ISLANDS		16 44N	169 31W	10	MIO	MIO	SP	J	NATL WEATHER SERVICE
FRENCH FRIGATE SHOALS	4401	07			23 52N	166 17W	6	8P	8A			U S COAST GUARD
MIDWAY SAND ISLAND	4490	07			28 13N	177 21W	10	MIO	MIO			U S NAVY
MALAELOA	4594	03	TUTUILA		14 20N	170 46W	139		7A			MARIST BROTHERS
PAGO PAGO WSO AP	R 4690	03	AMER SAMOA		14 20S	170 43W	10	MIO	MIO	7P	J	NATL WEATHER SERVICE
WESTERN PACIFIC ISL. NORTH OF 12 N												
AGAT	4000	03	GUAM		13 23N	144 39E	10		8A			PUBLIC UTIL AG OF GUAM
ANDERSEN AFB GUAM	\$3 402S	03	MARIANNA IS		13 35N	144 55E	624	MIO	MIO			AIR WEATHER SERVICE
CLARK AFB LUZON	\$3 4100	06	PHILIPPINE I		15 11N	120 33E	475	MIO	MIO			U S AIR FORCE
OEDEO	4156	03	GUAM		13 31N	144 51E	350		8A			PUBLIC UTIL AG OF GUAM
GUAM NAS	* 4226	03	MARIANNA IS		13 29N	144 48E	254	MIO	MIO			U S NAVY
GUAM WSMO	R 4229	03	MARIANNA IS		13 33N	144 50E	361	10A	10A	6P	J	NATL WEATHER SERVICE
INARAJAN AG STN	4275	03	GUAM		13 16N	144 45E	30		9A			AGRI EXP STN INARAJAN
INARAJAN - NASA	4278	03	GUAM		13 18N	144 44E	280	11A	11A			POWER PLANT OPERATIONS
MANGILAO	4468	03	MARIANNA IS		13 27N	144 49E	60		7A			GUAM AGRICULTURAL STA
PITI	4670	03	GUAM		13 27N	144 41E	10				C	DEPT OF PUBLIC SAFETY
ROTA	4800	03	MARIANNA IS		14 08N	145 09E	47		8A			DIST ADMINISTRATOR
SAIPAN LORAN	4860	03	MARIANNA IS		15 08N	145 42E	9	10A	10A			U S C G LORAN STATION
UMATAC	488S	03	GUAM		13 17N	144 40E	190		8A			GOVERNMENT OF GUAM OPS
WAKE ISLAND WSO AP	R 4901	01	WAKE ISLAND		19 17N	166 39E	12	MIO	MIO		J	NATL WEATHER SERVICE
YIGO	49S0	03	GUAM		13 32N	144 53E	52S		9A			ANIMAL QUARANTINE STN
CAROLINE AND MARSHALL ISLANDS												
ENEWETAK	416S	01	MARSHALL IS		11 21N	162 21E	10	6P	6P			MIO-PACIFIC MARINE LAB
FALALOP I ULITHI ATOLL	418S	02	CAROLINE IS		10 02N	139 48E	6	MIO	MIO			RAPHAEL B LINGESON
KAPINGAMARANGI ATOLL	432S	01	PONAPE		1 05N	154 48E	10	MIO	MIO			ERSIN HAQUET
KOROR WSO	R 43S1	02	CAROLINE IS		7 20N	134 29E	94	MIO	MIO		J	NATL WEATHER SERVICE
KWAJALEIN MISSILE RGN	R 437S	01	MARSHALL IS		8 44N	167 44E	7	12M	12M		J	KMR WEATHER SERVICE
LELE I KOSRAE	439S	02	KOSRAE		5 20N	163 02E	7	MIO	MIO			JULIAN E ROBERT
MAJURO WSO AP	R 4460	02	MARSHALL IS		7 05N	171 23E	10	MIO	MIO		J	NATL WEATHER SERVICE
METALANIM	4482	02	PONAPE		6 51N	158 19E	30	6P	6P			REV E A SOUCIE
NGASANG-BABELTHUAP	4580	01	PALAU ISLAND		7 38N	134 39E	10		8A			BETHANIA SEMINARY
PONAPE WSO	R 47S1	02	CAROLINE IS		6 56N	158 13E	123	MIO	MIO		J	NATL WEATHER SERVICE
SATAWAN ATOLL	4814	02	CAROLINE IS		5 20N	153 44E	9	MIO	MIO			ANTER EKO
TRUK MDEN I WSO AP	R 48S1	02	CAROLINE IS		7 28N	151 51E	5	MIO	MIO		J	NATL WEATHER SERVICE
WOLEAI ATOLL	4911	01	CAROLINE IS		7 23N	143 55E	7	MIO	MIO			HASUGULIMAR/HALEYEMAI
YAP WSO AP	R 49S1	02	CAROLINE IS		9 29N	138 05E	44	MIO	MIO	SP	J	NATL WEATHER SERVICE

SEE REFERENCE NOTES FOLLOWING STATION INDEX

# LATE REPORTS MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

HAWAII AND PACIFIC

Station	Temperature										Precipitation																	
	Average Maximum	Average Minimum	Average	Departure From Normal	Highest	Date	Lowest	Date	Degree Days	No. of Days					Total	Departure From Normal	Greatest Day	Date	Snow, Sleet			No. of Days						
										Max.		Min.							Total	Departure From Normal	Greatest Day	Date	Total	Max. Depth on Ground	Date	.10 or More	.50 or More	1.00 or More
										30° or Above	40° or Below	32° or Below	32° or Below	0° or Below														
HAWAII																												
* * * FEBRUARY 1978																												
HONOLULU AP 524	81.5	63.6	72.6		89	10	59	25+		0	0	0			.29		.13	4	.0	0		1	0	0				
* * * MARCH 1978																												
HONOLULU AP 524	80.1	65.7	72.9		85	29+	58	4		0	0	0			2.67		.83	2	.0	0		6	2	0				
* * * APRIL 1978																												
HONOLULU AP 524	81.8	67.5	74.7		86	18	56	4		0	0	0			1.48		.75	21	.0	0		4	1	0				
* * * MAY 1978																												
HONOLULU AP 524	84.5	68.6	76.6		89	3	57	30		0	0	0			7.11		1.97	24	.0	0		12	5	2				
* * * JUNE 1978																												
HONOLULU AP 524	85.5	68.5	77.0		92	9	60	18+		1	0	0			1.14		.42	28	.0	0		3	0	0				
* * * AUGUST 1978																												
WAILUKU 386															1.08	.31	.58	21	.0	0		3	1	0				

See Reference Notes Following Station Index

# LATE REPORTS MONTHLY SUMMARIZED STATION AND DIVISIONAL DATA

NA-AII AND PACIFIC

Station	Temperature										Precipitation															
	Average Maximum	Average Minimum	Average	Departure From Normal	Highest	Date	Lowest	Date	Degree Days	No. of Days				Departure From Normal	Greatest Day	Date	Snow, Sleet			No. of Days						
										Max.		Min.					Total	Departure From Normal	Greatest Day	Date	Total	Max. Depth on Ground	Date	.10 or More	.50 or More	1.00 or More
										32° or Above	32° or Below	32° or Below	32° or Below													
PACIFIC																										
* * * 1978																										
FALALOP I ULITHI ATOLL	88.5M	77.3M	82.9M		90	29+	75	17		3	0	0	0	1.16	- 2.55	.15	28+	.0	0		6	0	0			
LFLF I KOSRAE	90.0	73.1	81.6	.4	93	25+	52	31		23	0	0	0	11.85	- 8.09	2.96	8	.0	0		12	8	3			
* * * 1978																										
APRIL																										
FALALOP I ULITHI ATOLL	87.6M	76.7M	82.2M		90	30+	70	13		3	0	0	0	2.97	- 2.78	1.35	5	.0	0		12	1	1			
LFLF I KOSRAE	88.6	72.7	80.4	-.5	91	29+	60	17		13	0	0	0	10.59	-12.63	1.62	22	.0	0		17	6	4			
FRENCH FRIGATE SHOALS	80.1	70.4	75.3	2.8	83	28+	64	10		0	0	0	0	.31	- 2.85	.22	19	.0	0		1	0	0			
* * * 1978																										
MAY																										
FALALOP I ULITHI ATOLL	87.7M	76.4M	82.1M		90	21+	70	10		3	0	0	0	1.92	- 8.57	.20	26+	.0	0		11	0	0			
LFLF I KOSRAE	90.3	76.8	83.6		95	17	74	15		22	0	0	0	4.02		1.24	25	.0	0		7	4	1			
	88.5	74.6	81.6	.4	91	23	70	15		9	0	0	0	13.31	- 6.21	2.04	14	.0	0		20	9	4			
* * * 1978																										
JUNE																										
KAPINGAMARANGI ATOLL	89.3M	77.0M	83.2M		92	27+	74	16		12	0	0	0			1.88	15	.0	0		4	2				
WOLFEI ATOLL	89.0	71.3	80.2		92	16	67	27+		17	0	0	0	8.54		1.80	2	.0	0		14	6	3			
* * * 1978																										
JULY																										
GUAM NAS	86.5	78.0	82.3	.9	90	3	74	20		1	0	0	0	11.08	1.98	1.83	11	.0	0		16	8	7			
INARAJAN - NASA	87.7	73.1M	80.4M		89	31+	69	14		0	0	0	0	9.16				.0	0							
* * * 1978																										
AUGUST																										
GUAM NAS	85.4	76.9	81.2	.0	91	4	73	11		1	0	0	0	16.28	4.40	3.23	12	.0	0		20	9	5			
KAPINGAMARANGI ATOLL	90.4	75.5	83.0		92	31+	71	3		26	0	0	0	1.84		.74	3	.0	0		5	1	0			
MIDWAY SAND ISLAND	86.5	76.2	81.4	2.7	89	17	71	19		0	0	0	0	4.54	.21	1.59	27	.0	0		9	3	1			
* * * 1978																										
SEPTEMBER																										
GUAM NAS	87.0	76.9	82.0	1.0	89	30+	74	28+		0	0	0	0	9.85	- 4.28	2.27	26	.0	0		15	6	4			
KAPINGAMARANGI ATOLL	88.4M	76.1M	82.3M		91	18+	70	17		11	0	0	0			2.15	29	.0	0		6	3				
* * * 1978																										
OCTOBER																										
GUAM NAS	86.0	78.6	82.3	1.5	89	17	76	16		0	0	0	0	10.14	- 3.00	1.89	30	.0	0		19	8	1			

See Reference Notes Following Station Index

## HAWAII AND PACIFIC

See reference notes following Station Index.



# LATE REPORTS DAILY PRECIPITATION

HAWAII AND PACIFIC

Station		Total	Day of Month																																
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
PACIFIC																																			
* * *																																			
MARCH 1978																																			
FALALOP I ULITHI ATOLL			1.14																																
LELF I KOSRAE			11.85	.10		.15	T	.78	1.51	2.37	.15	.15		.05		.15	.05	.03				.10	.05						.03	T	.03	.15	.08	.05	
* * *																																			
APRIL 1978																																			
FALALOP I ULITHI ATOLL			2.97			.04	.04	.10	1.35			.15	.10	.05		.07	.15			.10	.10	.15	T				.03			.15	.04	.15	.10		
LELF I KOSRAE			10.59	.03	.02	.08		1.03	.01	.07	.92	.07	.23	1.93	.26	.47	.46	.32		.11	.03	.12	.38	.01	.40	1.62	.33	.10	.03	.43	.64	1.00	T	.02	
FRENCH FRIGATE SHOALS			13.31	.01						.01		.07				.01				.01	.03	.01	.22	.01	.01	.01	.01					.01			
* * *																																			
MAY 1978																																			
FALALOP I ULITHI ATOLL			1.92	.01	.02					.10	.04	.07				.20	.15	.06	.15	.15		.10	.10	.15	.05	.15	.10	.10	.20			.05	.05		
KAPINGAMAPANGI ATOLL			4.02							.25	.36			.07		.28	.74	.58	.09		.08	.06						1.24							
LELF I KOSRAE			13.31	.27	.17	.74	.05	.05	T	.41	.12	.39	.36	.42	.67	2.04	1.46	.81	.40	.05	1.22	1.21						.76	.76	.30		.16	.43	.06	
* * *																																			
JUNE 1978																																			
KAPINGAMAPANGI ATOLL									.02		.30	.25	1.23	.62		.96	1.88	.20	.03					.24	.08		.12								
WOLFAT ATOLL			8.54		1.80	.12	.05	.42		.01	.25	.03	1.60	.68		.03		.02	1.04	.12	.10	.25	.05	.15	.98	.04	.02				.65	.13			
* * *																																			
JULY 1978																																			
GUAM NAS			11.08	.56	.01	.16	1.16	.29		.16	.03	T			1.43	1.03		1.19	.11	.02	T	.36	.03	T	.18	T	1.12	1.00	.15	T	.08	.16			
ITHAPAJAN - NASA			9.16	1.19	.42	*	1.59	.11		.11	.42	.01			.34	1.31		1.06	.93		.13		.10	.30	T			.05	.12	.25	T	.72			
* * *																																			
AUGUST 1978																																			
GUAM NAS			16.28	.02	.03	.13	.01	.04	.56	.78	1.06	.37	2.77	2.08	3.23	.49		.22	T	1.03	.70	.22	.01	.26	.33	.30	.02		.38	T	.41	.22	.21	T	
KAPINGAMAPANGI ATOLL			1.84	.03		.74			.35									.06	.22			.21										.23			
MIDWAY SAND ISLAND			4.54	.02	.01	.30	.16	.05	T			.10	.54			.02					.63	.07	T	.01	.03	.04	.34	.36	1.59	.05	.08		.14		
* * *																																			
SEPTEMBER 1978																																			
GUAM NAS			9.85	.02		.29	.26	T	.15	.20	.10	.09	T	.39	.20	.03	.03	.06	.35	.11	1.11	.77		.05	1.69	.05	.53	.16	2.27	1.02	.01	.05	.06		
KAPINGAMAPANGI ATOLL								.03								.02	1.40	1.57				.70					.03	.61	.74		2.15	.07			
* * *																																			
OCTOBER 1978																																			
GUAM NAS			10.14	.06	.26	.09	.25	.68	.36	.31	.83	.21	.29	.03	.91	.48	.05		.04	.60		T			T	.72	.53	.18	.10	.14	.83	T	1.89	.30	

See reference notes following Station Index

## HAWAII AND PACIFIC

See Reference Notes Following Station Index

## HAWAII AND PACIFIC

See Reference Notes Following Station Index

# CORRECTIONS

## HAWAII

## HAWAII AND PACIFIC

DATE	TABLE	DIVISION	STATION	CORRECTION
April 1977	Daily Precipitation	Island of Hawaii	Kukuhale Hic 199	Total, .00. Amount on 1st-30th, .00.
December 1977	Daily Precipitation	Island of Kauai	Mohihi Upr Crossing 1083	Total, 10.06. Amount on 15th, .25; 16th, 1.85; 17th, .76; 18th, .42; 20th, .08; 21st, .08; 27th, .92; 28th, .34; 31st, .42.
February 1978	Daily Precipitation	Island Hawaii	Moaula	Amount on 25th-28th, missing.
May 1978	Daily Precipitation	Island of Kauai	Princeville Ranch	Amount on 13th-19th, *.
July 1978	Temperature and Precipitation Extremes			Lowest temperature: Mauna Loa Slope Obs., Hawaii, 35; date, 24+
July 1978	Daily Temperatures	Island of Hawaii	Mauna Kea Obs 111.2	Delete all temperatures.

## PACIFIC

DATE	TABLE	DIVISION	STATION	CORRECTION
February 1978	Monthly Summarized Station and Divisional Data	Western Pacific Island North of 12 N	Mangilao	Total precipitation, 3.56.
February 1978	Daily Precipitation	Western Pacific Island North of 12 N	Mangilao	Total, 3.56. Amount on 11th, .06; 25th, .38.

# REFERENCE NOTES

HAWAII AND PACIFIC

Additional information regarding the climates of Hawaii and the Pacific Ocean may be obtained by writing to the National Climatic Center, Federal Building, Asheville, N.C. 28801, or to any Weather Service Office near you. Additional precipitation data are contained in the "HOURLY PRECIPITATION DATA HAWAII."

**DIMENSIONAL UNITS:** Unless otherwise indicated, dimensional units used in this bulletin are: Temperature in °F, precipitation and evaporation in inches and wind movement in miles. In "Supplemental Data" table directions entered in figures are tens of degrees. Resultant wind is the vector sum of wind directions and speeds divided by the number of observations.

**OBSERVATION TIME:** Data in the "Extremes" table, "Daily Precipitation" table, "Daily Temperature" table, "Evaporation and Wind" table are for the 24 hours ending at time of observation unless indicated otherwise by reference letters in the Station Index. The Station Index shows observation time in local standard time.

**EVAPORATION** is measured in the standard Weather Service-type pan of 4-foot diameter unless otherwise noted below in the "Evaporation and Wind" table. Max and Min values in the "Evaporation and Wind" table are extremes of temperature of water in pan as recorded during 24 hours ending at time of observation. Wind is the total wind movement in miles over the evaporation pan as determined by a continuous anemometer recorder located 6-8 inches above the pan.

**NORMALS** for all stations are climatological standard normals based on the period 1941-1970.

**STATION NAMES:** Hawaii state key numbers are included following station names in the several tables.

**LATE REPORTS AND CORRECTIONS** will be carried only in the June and December issues of this bulletin.

**INTERPOLATED VALUES** for monthly precipitation totals may be found in the annual issue of this publication.

**IN THE DATA TABLES THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING:**

- No record in the "Supplemental Data" table, "Daily Precipitation" table, "Evaporation and Wind" table.
- + No record in the "Monthly Summarized Data" table and the "Daily Temperature" table is indicated by no entry.
- ++ And also on an earlier date or dates.
- \* Highest observed one minute windspeed. This station is not equipped with an instrument to measure fastest mile data.
- \* Amount included in following measurement, time distribution unknown.
- ‡ Extreme occurred at station with incomplete data which may have been exceeded.
- A The letter "A" shown following station name in "Monthly Summarized Data" table, "Daily Precipitation" table, and "Station Index," indicates amount carried in the "Total" column is for the period from last measurement of a preceding month through the last measurement of the current month. See "Daily Precipitation" table of this and previous bulletins for dates of measurement. Where gages are read only once monthly, measurements made on the first of a month are credited to the last day of the preceding month.
- B Adjusted to a full month.
- M One or more days of record missing; if average value is entered, less than 10 days record is missing. See "Daily Temperature" table for detailed daily record.
- R Amounts from recording gage.
- T Trace, an amount too small to measure.
- V Includes total for previous month.

**IN THE STATION INDEX THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING:**

- AR Observation made after rain.
- C In Special Column of Station Index indicates Recording Rain Gage Station. Hourly precipitation values are processed for special purposes, and are published later in the "Hourly Precipitation Data" bulletin. If daily amounts are published in "Monthly Summarized Data" bulletin they are from a separate non-recording gage, except where indicated by reference 'R'. Such amounts may differ from amounts published from the recording gage in the "Hourly Precipitation Data" bulletin.
- J "Supplemental Data" table.
- MO Gage read once monthly; usually on the last day.
- OC Gage readings at periods varying from a few weeks to several months.
- S Storage precipitation station. Precipitation measurements, made at irregular intervals, are published in the annual issue of this publications, beginning with the 1977 data. Prior data are found in the "Storage-Gage Precipitation Data" Bulletin, which was discontinued with the 1976 issue.
- SS Observation time is near sunset.
- VAR Observation time is variable.
- WI Gage read weekly or irregularly only.
- WM Gage read weekly and last day of month.
- # Thermometers are generally exposed in a shelter located a few feet above sod-covered ground; however, this reference indicates that the thermometers are exposed in a shelter located on the roof of a building.
- \$3 Maximum and minimum temperatures are the highest and lowest hourly readings for each day.
- ‡ ORAINAGE CODE: KAUAI: 1-NORTHERN 2-SOUTHEASTERN 3-SOUTHWESTERN OAHU: 1-WINWARD KOOLAU 2-HONOLULU 3-SOUTH CENTRAL 4-WESTERN 5-NORTH CENTRAL MOLOKAI: 1-(NO INTRA-ISLAND DIVISIONS) LANAI: 1-(NO INTRA-ISLAND DIVISIONS) MAUI: 1-NORTHEASTERN 2-SOUTHERN 3-CENTRAL 4-WESTERN HAWAII: 1-NORTHERN 2-EASTERN 3-SOUTHERN 4-WESTERN 5-CENTRAL

Stations appearing in the tables with no data were either missing or received too late to be included in this issue.

The Pacific includes stations in the Trust Territory of the Pacific Islands, Territory of Guam, American Samoa, and other scattered islands and atolls.

General weather conditions in the U.S. for each month are described in the CLIMATOLOGICAL DATA NATIONAL SUMMARY and STORM DATA.

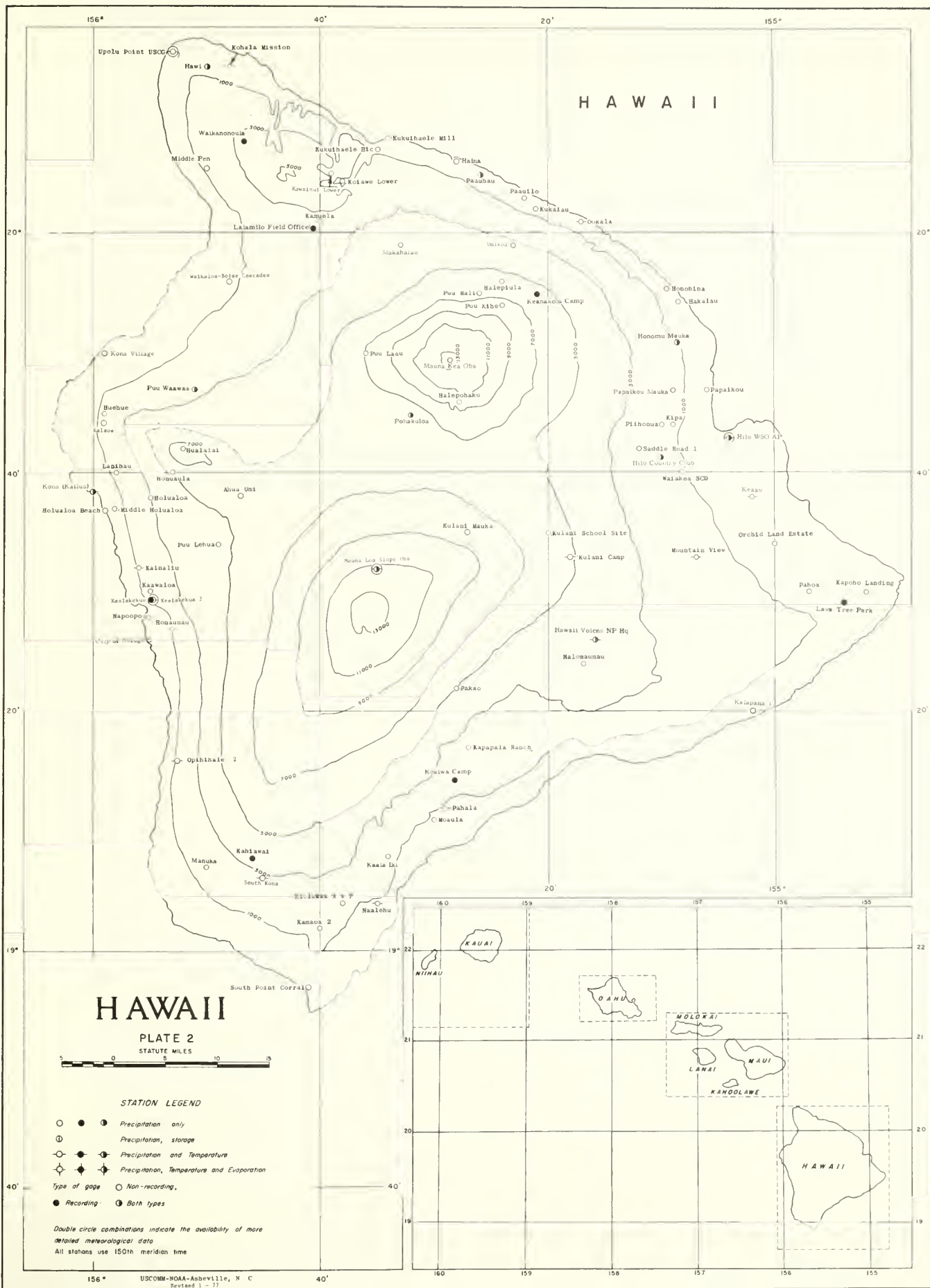
Information concerning the history of changes in locations, elevations, exposure, etc., of substations through 1957 may be found in the publication "Substation History" for this State, price 40 cents. Similar information for regular National Weather Service Offices may be found in the latest annual issue of Local Climatological Data, price 20 cents. Note minimum charge and ordering instructions below.

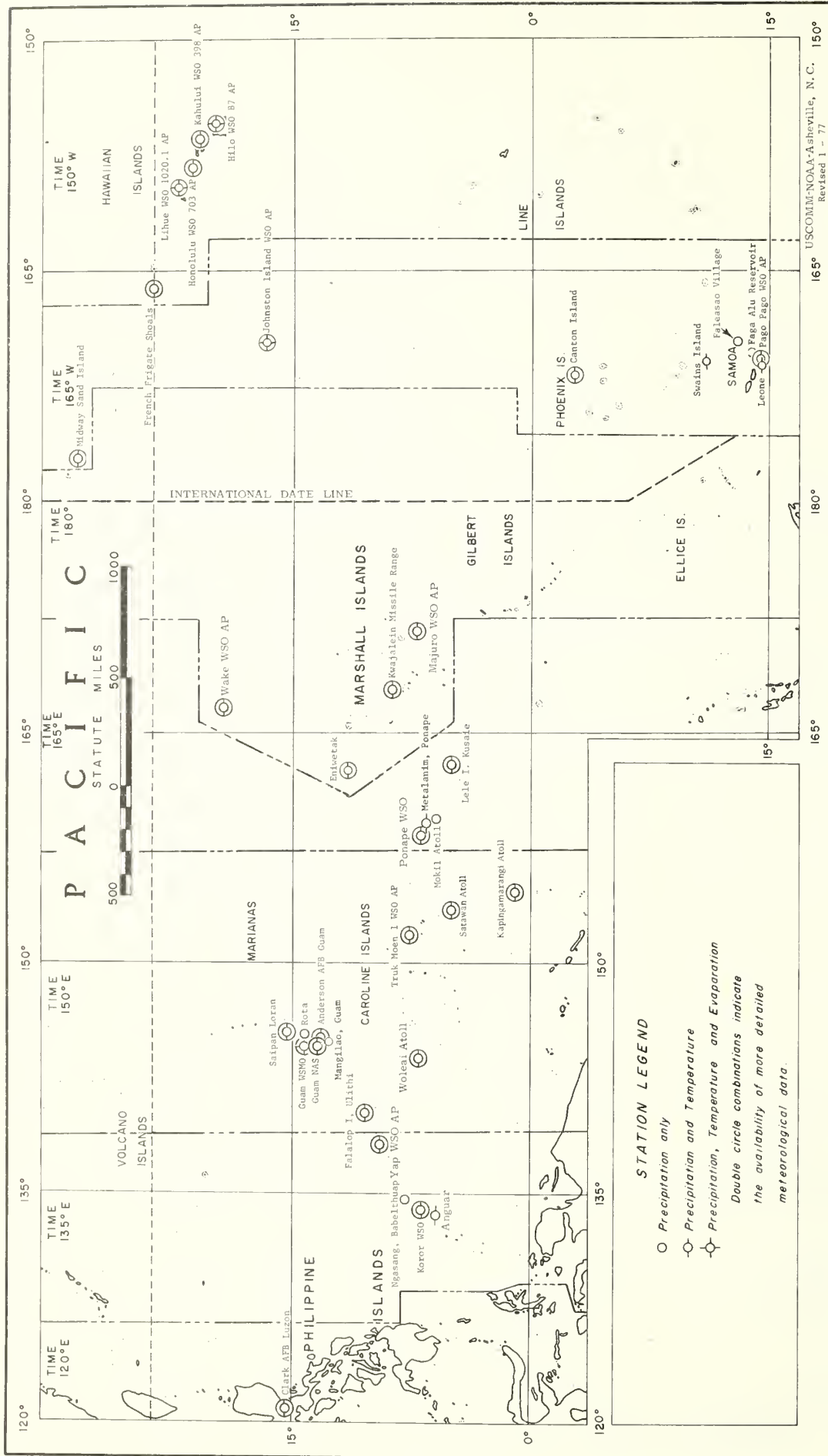
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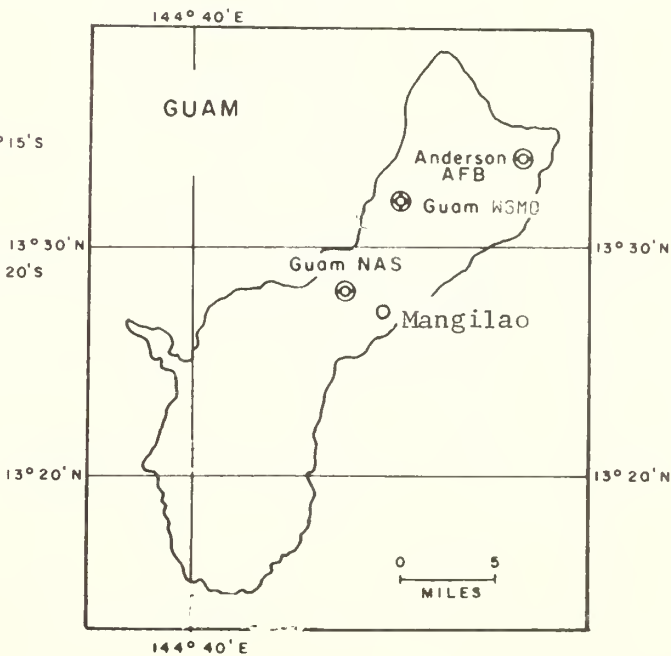
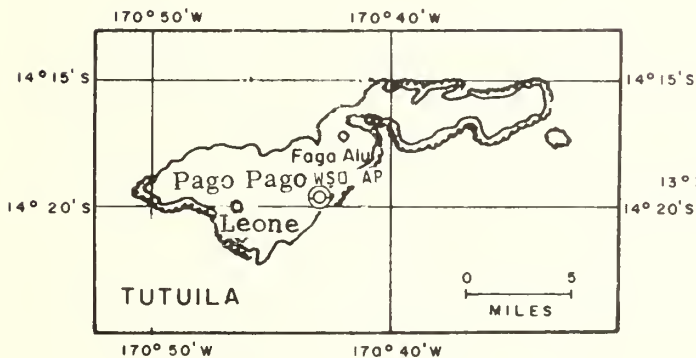
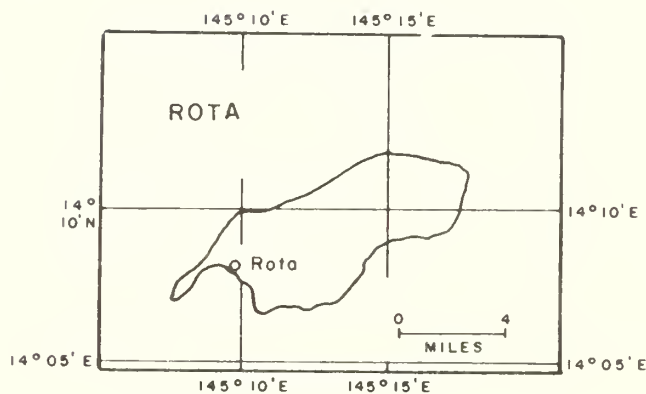
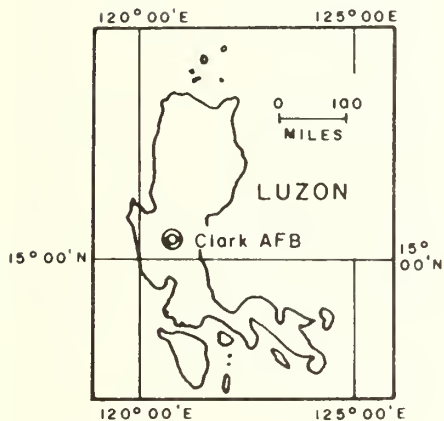
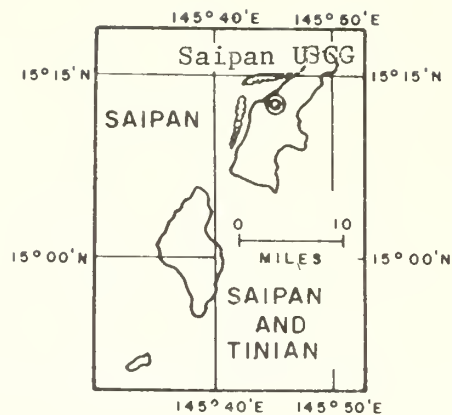
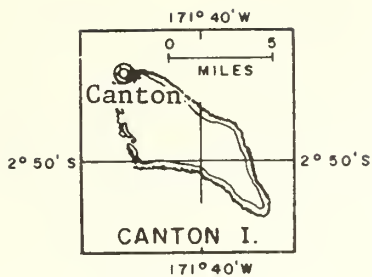
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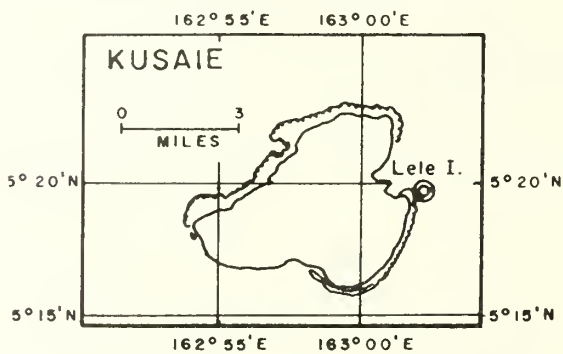
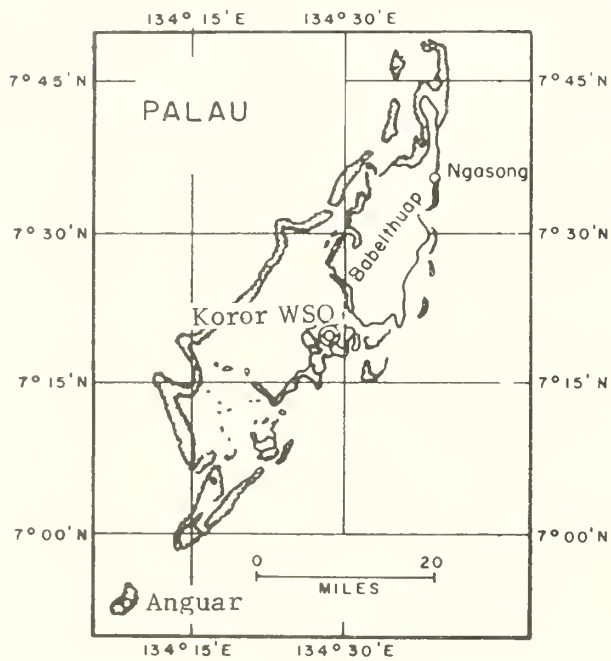
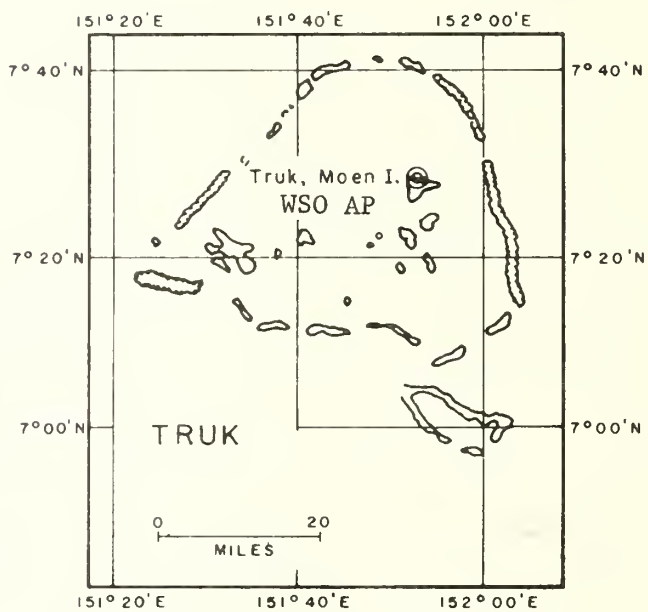
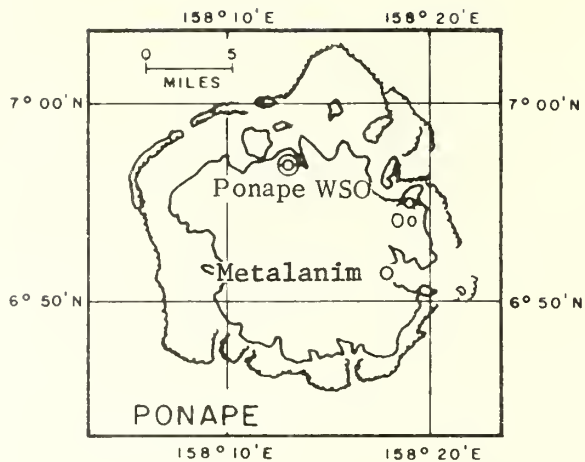
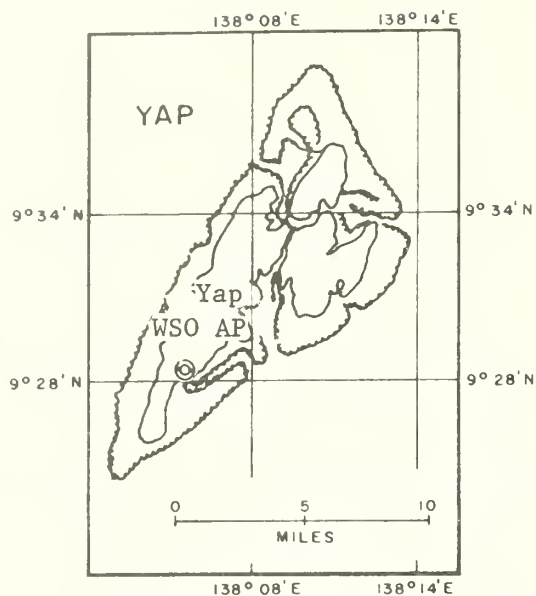






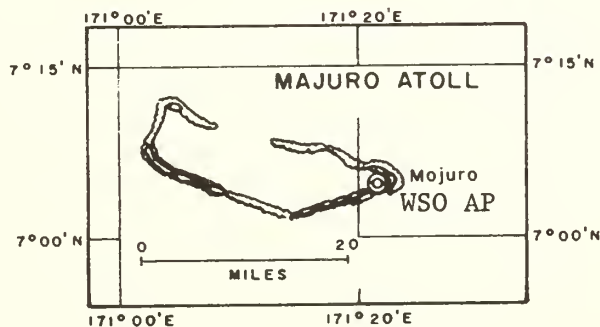
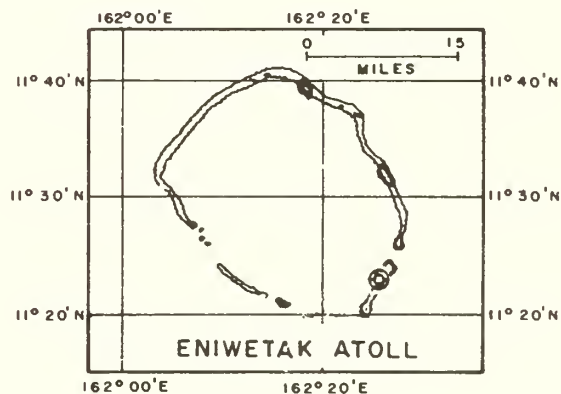
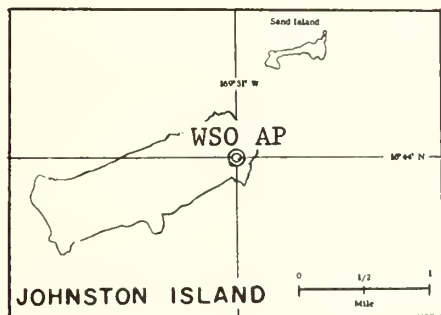
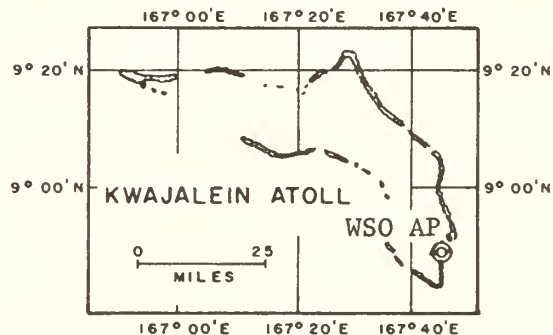
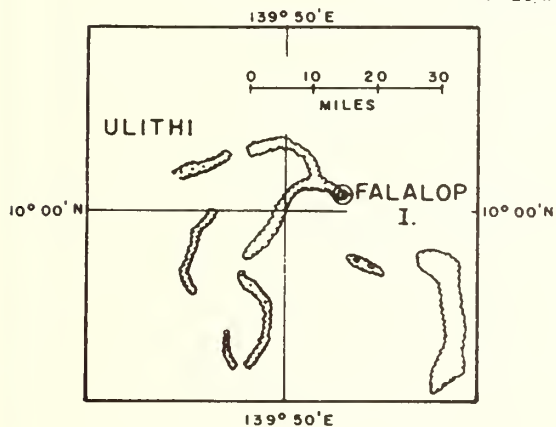
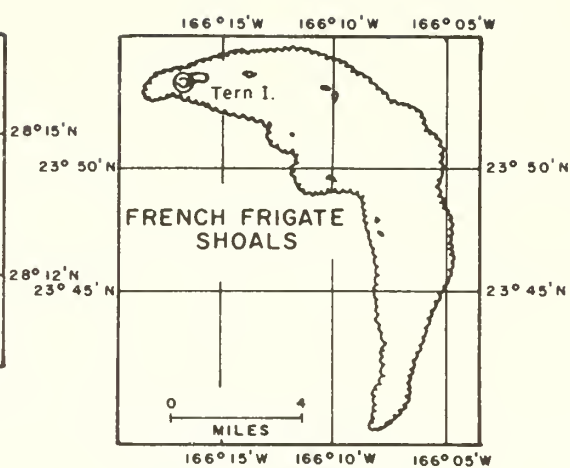
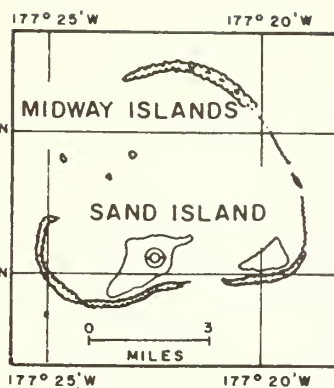
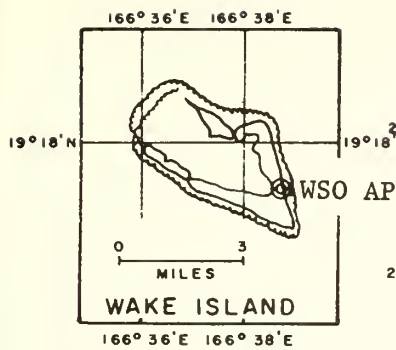


Reef



— Reef









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210



**THIRD CLASS**  
**BULK RATE**

# CLIMATOLOGICAL DATA

## ANNUAL SUMMARY



HAWAII & PACIFIC

1978



"I CERTIFY THAT THIS IS AN OFFICIAL PUBLICATION OF  
THE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRA-  
TION AND IS COMPILED FROM INFORMATION RECEIVED AT  
THE NATIONAL CLIMATIC CENTER, ASHEVILLE, NORTH  
CAROLINA 28801."

*Daniel B. Mitchell*

DIRECTOR  
NATIONAL CLIMATIC CENTER



# AVERAGE TEMPERATURES AND DEPARTURES FROM NORMAL

HAWAII AND PACIFIC  
1978

Table 1

Station	January		February		March		April		May		June		July		August		September		October		November		December		Annual	
	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure
HAWAII																										
ISLAND OF KAUAI																										
KANALOUHOU 1075	85.3		84.5		86.9		89.2		91.2		93.5		94.6		95.0		94.8		91.0		97.9M		96.2		90.0M	
KILAUEA POINT 1133	74.5		74.5		73.6M		74.1M		75.3M		76.8M		77.8M		79.4		79.5		77.8		76.7		73.4		77.2M	
KOLOA IN (MAK) 940.1	72.5M		74.0		74.7		75.8		78.2M		78.6		80.2M		80.3		81.2		80.5		76.7		73.4		77.2M	
LIHUE WSD AP 1020.1	72.0	-	72.2	1.0	73.6	1.7	74.2	-	75.2	-	76.9	-	78.6	-	79.4	1.1	79.5	1.1	77.8	1.7	73.8	1.4	73.1	1.6	75.5	1.4
LIU PLOFF 1035			68.2M		69.1M				73.1M	2.1	74.7M	2.0			75.2M											
WAIKAI POWER 1054	65.9		66.3		66.2M		67.7		68.7		70.0		71.4		72.0M		74.0		72.3		70.0		68.5M		69.4M	
WAIMFA 947	-		-		-		-		-		-		-		78.2		79.2M		78.6		73.3		71.5M		-	
ISLAND	66.9		66.9		67.6		68.8		70.1		71.8		73.1		73.7		74.4		71.9		68.8		67.3		70.1	
ISLAND OF OAHU																										
ALOHA STADIUM-HALAWA	72.4M		72.5M		73.4M		74.8M		76.4M		77.6M		79.0M		79.3M		79.6M		77.2M		74.6M		73.7		75.8M	
BY U LIE 903.1	73.3M		73.3		73.1		74.2		76.1		78.0M		78.2		80.1		79.8		77.6		74.5		73.7		75.8M	
MONTELU OASERV 702.2					73.1		75.2		76.6		78.6		80.1		80.1		79.8		77.2		74.0		73.0			
MONTELU WSD 703 AP	74.2	1.9	73.2	1.9	75.7	2.7	76.8	2.7	78.2	1.3	78.7	1.2	79.0	1.1	80.5	1.2	80.5	1.1	77.8	1.1	74.7	1.8	72.4	1.3	76.8	1.3
KANEHNE MAUKA 781	72.1	1.0	73.0	2.0	72.5	1.1	73.4M	1.8	74.8	1.6	76.1	1.2	76.6	1.0	77.4	1.4	77.4	1.6	76.3	1.4	74.4M	1.5	72.4	1.4	74.7M	1.7
HANOA LYNN ARBORETUM	70.5		70.7		70.5		71.3		72.8		73.6		74.2		74.9		74.7		74.8		72.6		70.3		72.6	
TRAEHILA 870			69.0	2.6	68.4	1.6	70.5	2.4	72.2	2.3	73.6	1.9	74.3	1.4	75.2	2.1	74.7M	1.4	73.8M	1.5	71.4	1.0	70.6M	2.7		
WAIKAELE 896.3	71.8		72.2		71.7		73.3M		74.8M		76.6M		77.4M		78.4M		78.1		76.9M		73.6M		71.7		74.7M	
WAIKALUA 847	69.5	-	69.1	-	69.9	-	71.2	-	73.5M	2	74.7	1.7	75.8	1.3	76.3	1.3	76.6	1.3	74.6	1.7	71.8	1.7	70.6	1.5	72.8M	1.5
WAIKIKI 717.7	71.7		71.0		73.6		74.4		76.9M		78.6		80.7		81.1		81.0		78.9		75.9		74.1M		76.5M	
ISLAND	71.9		71.6		72.2		73.5		75.2		76.4		77.5		78.3		78.2		76.5		73.8		72.1		74.8	
ISLAND OF MOLOKAI																										
MOLOKAI AP 574	72.9		72.6		72.9		74.7		76.6		77.0		78.4		80.1		80.1M		78.2		-		-		-	
ISLAND	72.9		72.6		72.9		74.7		76.6		77.0		78.4		80.1		80.1		78.2						63.6	
ISLAND OF LANAI																										
LANAI AIRPORT 850	67.6		67.3		69.1		70.1		72.1		72.6		74.2		75.0		-		73.2		-		68.9		-	
LANAI CITY 672			66.6M	1.7	66.9M	1.5	69.7M	1.1	70.5M	1.5	71.6M	1.1	71.7M	1.3	72.8M	1.7	72.5	1.7	71.6M	1.7	69.8	1.8	-		-	
ISLAND			66.6		66.9		68.7		70.5		71.6		71.7		72.8		72.5		71.6		69.8				58.6	
ISLAND OF MAUI																										
HOLEKALEA P 5 938	52.7	1.7	50.1	-	50.6M	1.4	50.9	-	54.8	1.2	54.5	-	57.7	1.3	57.5	1.5	54.3	1.4	55.2	1.2	52.6	1.0	48.8	-	53.5M	1.1
HANA AIRPORT 395	71.6		72.3		73.3M		73.6		76.1		76.9		77.0		77.7		77.8		76.5		74.2M		72.3M		74.9M	
KANAPALI AP 493.1	71.7		71.6		72.7		73.9		75.5		77.2		77.7		79.2M		80.1		78.3M		75.0M		73.3M		75.5M	
KAHULUI WSD 398 AP	74.0	2.3	72.9	1.3	74.8	2.6	76.5	2.7	78.3	2.9	79.1	2.0	80.4	2.2	81.2	2.4	80.9	2.5	79.5	2.2	76.1	1.8	74.1	1.5	77.3	2.1
KAILUA 446			69.7M	1.8	70.2M	2.1			72.8M	2.2	72.9	1.9	74.1M	1.4	73.6M	1.3	74.0M	1.7	72.9M	1.3	71.6	1.5	68.7M	1.0		
KEAWAKAPI BEACH 260.2	72.2M		71.9		73.3		74.6		77.1M		78.2		78.9M		80.2M		79.9M		78.0		75.1		72.8		76.0M	
KULA SANATORIUM 267	62.8	1.3	62.3	1.4	62.9	1.7	62.8	1.7	66.0	2.5	65.6M	1.9	66.3	1.7	66.9	1.6	66.6	1.5	65.9	1.1	64.2	1.2	61.3	1.1	64.3M	1.8
LAHAINA 761	72.1	-	73.1	1.6	74.6	2.7	76.5	3.2	77.5	2.6	77.9	1.4	78.9	1.3	79.7	1.7	79.0	1.3	76.9M	1.1	75.0	1.2	72.7	1.3	76.2M	1.4
LIH APAT RES CNTR 324.5																	68.0		66.6		66.6		61.6			
ISLAND	67.4		67.4		68.4		69.0		71.6		72.0		73.2		73.7		73.5		72.2		69.8		67.3		70.5	
ISLAND OF HAWAII																										
HAWAII VOLCANO NP HQ 5M	58.1M	1.2	57.1M	1.5	58.4	1.6	60.1M	1.1	62.0	1.6	61.9	1.2	63.1	1.4	64.7	1.5	63.3M	1.8	63.4M	1.0	62.0M	1.4	56.9M	1.5	60.9M	1.5
HILU WSD AP 87	71.7	-	72.5	1.5	73.2	2.1	74.2	2.0	76.2	2.7	76.5	1.9	77.1	1.8	78.8	1.9	78.2	1.8	75.5	1.5	74.1	1.6	71.1	1.5	74.6	1.2
KAINALIHI 73.2	68.1		67.4		67.9		68.5		69.7		70.2		70.8		71.1		70.3		71.9		71.3		69.2		69.7	
KAMUFLA 192.2							75.6		76.3M		77.7M		78.6M		79.2M		78.2M		78.1		75.8		73.5M		76.3M	
KAPUHA BEACH 93.11	72.8		73.5M		74.5																					
KUNA (KAILUA) 68.3			74.3M		75.4M				77.8M		78.3		79.2M		79.7M				79.3M							
KULANI CAMP 79	53.0M		51.6M		51.9M		54.0		57.3M		57.4M		59.1M		61.1M				59.1M		57.5M		53.9M		-	
MAUNA KEA OBS 111.2													40.5				43.1M		41.0M				33.5M			
MAUNA LEA SLOPP OBS	42.9		42.8		42.8		41.8		45.7		45.7		45.8		46.3		45.7		45.1		40.6		39.9		43.8	
MOUNTAIN VIEW 91			66.0M	1.8	66.4M	1.3			69.7M	2.1	69.4	1.8	69.0	1.3	71.0	1.0	70.6	1.8	70.7M	1.4	69.2	1.3	65.2	1.8		
NAALEHU 16	68.0		68.6		69.3		69.7		71.8		72.0		72.1		73.5		73.4		72.8M		71.1		68.6		70.9M	
PUKIA 223	70.0	-	70.0M	1.2	70.9M	1.8	71.4	1.8	73.4	1.8	73.7	1.4	73.3	1.4	74.7	1.5	75.1	1.8	74.3	1.8	72.8	1.1	70.0	1.9	72.5M	1.2
PUKIAHAI 2 24.1	67.0		66.8		66.9		69.2		71.2		71.9		72.5		73.3		72.1		71.7		70.1		67.5		70.0	
PUKIAHAI METAD 98.1	74.4M		74.0M		75.4M		76.6M		77.9M		78.3M		80.7M		80.7M		80.8M		80.3M		77.4		65.2		67.5	
SOUTH KONA 2.31	65.0		64.2		64.8		66.2		69.0		67.7		69.7		71.2		69.6		69.5							
UPOLU POINT USFC 159.2	73.8		74.0		74.7		75.0		76.8		77.2		78.9		78.7M		78.7M		77.1M		74.9M		72.5		75.9M	
ISLAND	66.2		66.8		67.7		67.9		71.0		71.0		72.3		73.1		73.1		72.1		69.4		65.0		69.6	

Table I

## AVERAGE TEMPERATURES AND DEPARTURES FROM NORMAL

HAWAII AND PACIFIC  
1978

Station	January		February		March		April		May		June		July		August		September		October		November		December		Annual	
	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure
PACIFIC																										
* * *																										
EAST OF 180TH MERIDIAN																										
CANTON ISLAND	85.5M		85.1M		85.3M		84.2M		84.9M		83.4M		84.2M		81.9M		82.7M		82.6M		82.7M		83.0M		83.7M	
JOHNSTON IS WSO AP	77.4	-.6	77.8	1.3	77.6	1.0	75.3	-.7	79.4	-.5	80.8	-.6	81.6	-.8	81.9	-.7	81.4	-.5	81.1	-.5	79.0	-.3	76.8	-.8	79.4	-.5
LEONIE	85.0		88.3		84.9		85.5		84.3																	
FRENCH FRIGATE SHOALS	73.9	-1.9	74.3	-3.5	73.4	-2.3	75.3	-2.8	75.7	-1.1	75.4	-2.0	77.6	-.9	78.1	-.8	78.4	-1.1	76.4	-1.7			72.3	-1.0		
MIDWAY SAND ISLAND	64.6	-1.1	65.1	-.4	64.4	-.9	67.3	-.3	69.0	-2.4	77.5	1.8	79.1	1.3	81.4	2.7	80.9	2.2	77.5	1.9	73.2	1.3				
PAGO PAGO WSO AP	80.9	-.6	81.6	1.1	80.9	-.1	80.3	-.3	80.5	-1.0	79.8	-.7	78.9	-.6	79.5	1.3	79.5	-.5	80.1	-.7	79.3	-.6	80.9	-.9	80.1	-.5
* * *																										
WESTERN PACIFIC ISL. NORTH OF 12° N																										
ANDERSEN AFB GUAM	77.6	-.6	78.3	-1.9	78.6	-1.1	79.1	-.4	80.2	-1.1	78.7	-2.1	81.0	-.6	79.9	-.2	80.7	-.9	80.6	-.6	78.8	-1.5	78.2	-1.1	79.1	-.5
CLARK AFB LUTON	78.3	-.9	78.5	-.3	82.7	1.6	84.5	-.7	84.3	-.1	80.7	-1.2	79.9	-.7	78.0	-1.8	79.0	-.6			79.2	-.2	79.4	-.9		
GUAM NAS	78.5	-.9	77.0	-2.4	78.8	-1.2	81.8	1.0	83.2	1.9	82.5	-.7	82.3	-.9	81.2	-.0	82.0	-1.0	82.3	1.5	80.9	-1.1	80.4	-.3	80.9	-.2
GUAM WSO	76.7	-.6	76.6	-.7	75.1	-.4	79.8	-.8	81.0	1.6	79.9	-.1	79.7	-.3	79.1	-.0	79.7	-.6	79.7	-.8	78.9	-.3	78.1	-.4	78.9	-.2
INARAJAN - NASA													80.4M		79.7M		81.0		81.0M		79.1		78.4			
Saipan LORAN																										
Wake Island WSO AP	76.8	-.2	76.8	-.2	77.0	-.7	79.3	1.0	80.1	-.3	81.6	-.1	82.3	-.3	84.1	1.5	84.1	1.5	83.8	2.2	81.2	-.8	79.7	1.1	80.6	-.7
* * *																										
CAROLINE AND MARSHALL ISLANDS																										
ENWETAK									82.0M	-.5	82.9M	-.1														
FALACOP I ULITHI ATOLL	80.9M				82.9M		82.2M		82.1M				83.0M		83.0		82.3M		82.1M		80.8M					
KAPINGAMARANGI ATOLL	82.0M		82.2M		82.0M		81.5M		83.6		83.2M		82.3		80.8		80.9		81.4		81.7		81.8		81.6	
KOROR WSO	81.3	-.1	80.1	-.6	82.6	-.9	81.9	-.0	82.6	-.6	81.8	-.2	82.3	1.2	82.3	-.2	82.6	-.1	82.5	-.1	81.6	-.2	81.8	-.5	81.6	-.1
KWAJALEIN MISSILE RM	81.6	-.4	81.5	-.1	82.5	-.8	82.0	-.2	81.2	-.6	81.7	-.2	81.6	-.5	82.3	-.2	82.6	-.1	82.5	-.1	81.6	-.1	82.0	-.4	81.9	-.0
LELE I KOSRAE	81.4M	-.1	81.7	-.4	81.6	-.4	80.4	-.5	81.6	-.4	81.7	-.7														
MAJURO WSO AP	81.2	-.4	81.1	-.1	81.5	-.3	80.9	-.2	80.5	-.8	80.9	-.1	80.4	-.6	81.5	-.0	81.6	-.2	81.2	-.1	80.6	-.6	80.3	-.8	81.0	-.2
METALANIM	80.2		80.6		81.1		80.9M		81.5M		80.4		81.0		80.8		80.2M		80.7		81.1		80.8		80.8M	
PONAPE WSO	81.1	-.5	81.3	-.6	82.6	1.8	81.4	-.7	82.0	1.3	80.6	-.1	80.8	-.8	81.3	1.2	80.9	-.2	80.9	-.7	80.8	-.5	81.6	1.0	81.3	-.8
SATAVAN ATOLL																										
THUK MPEN I WSO AP	81.3	-.2	81.7	-.6	82.4	1.1	82.1	-.8	82.1	-.8	82.0	-.7	82.4	1.7	82.1	1.2	81.9	-.9	81.8	-.7	81.9	-.6	82.0	-.7	82.0	-.9
WOLEAI ATOLL	82.0M		81.7M		82.2M		81.9		81.6		80.2		80.9M				80.4						82.2M			
YAP WSO AP	80.2	-.2	79.7	-.8	81.3	-.2	81.6	-.1	82.2	-.4	81.3	-.4	81.4	-.2	80.4	-.6	80.2	-1.1	79.8	-1.6	81.0	-.5	81.1	-.1	80.8	-.4

See Reference Notes Following Station Index

## TOTAL PRECIPITATION AND DEPARTURES FROM NORMAL

HAWAII AND PACIFIC  
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TABLE 2

	JANUARY		FEBRUARY		MARCH		APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER		OCTOBER		NOVEMBER		DECEMBER		ANNUAL	
STATION	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE
HAWAII																										
ISLAND OF KAUAI																										
NAHOLA 1114	1.06	.35	3.09		2.44		5.79		3.37		1.91		2.49		1.51		4.92		9.31		3.37		39.51			
RYDESWOOD STA 985	1.73	.37	2.92		3.06		4.96		9.45		5.10		3.97		2.42		4.30		8.20		4.61		53.09			
EAST LAWA 934	1.43	.19	3.01		3.64		7.05		11.25		5.32		6.43		4.07		4.34		9.67		6.74		64.04			
ELELE 927	1.30	.17	1.37		1.65		2.89		3.06		1.02		.89		.75		3.31		6.29		4.90		27.60			
HALAULA 1110	1.25	.46	3.09		3.32		5.75		4.40		2.42		2.70		2.03		5.60		8.68		3.67		43.57			
HALENAHAHI 1006	1.36	2.08	3.96		5.45		6.85		12.25		7.98		5.84		4.89		6.15		11.37		6.47		73.75			
HANALEI TUNNEL 10*3	2.80	2.40			4.40		16.00		8.40		13.00		15.60		10.80		20.80		14.20		9.60		126.40			
KUKIPU 949	1.78	3.32	.84	2.16	.99	1.67	1.13	.89	4.82	3.63	.39	.11	.94	.39	3.34	.57	11.2	.57	3.39	1.57	3.38	.82	2.19	2.59	20.31	5.25
LILIUULUA INTAKE 1050	2.81		7.63		11.86		21.01		20.76		16.16		20.87		11.95		9.78		19.66		10.73		156.03			
INTAKE MAINHA PC 1084	4.37	1.35	11.10		18.28		14.39		34.57		10.17		11.97		7.21		7.79		16.59		18.50		156.29			
ANALOHULULUHILU 1075	5.33	2.27	5.12		6.33		3.42		5.02		1.25		2.18		.71		5.05		7.84		9.07		53.59			
KANEHA RESERVOIR 1092	2.23	2.25	6.50		7.55		14.27		14.67		7.28		7.04		5.03		9.76		17.22		7.82		1102.62			
KAPAA STARLES 1104	1.05	.48	2.40		3.83										1.37		4.71		7.88		3.95		37.87			
KEALIA 1112	1.27	.49	1.82		2.64		5.49		4.32		2.16		1.77		1.08		4.66		4.13	1.95	1.51	2.73	17.92	4.52		
KEKAHA 944	1.47	3.16	4.77	2.10	1.29	1.08	1.11	.45	4.23	3.19	.45	.20	.39	.06	.19	.56	.08	.66	.94							
KILAUEA 1134	1.58	3.07	3.06		5.53		6.23		7.44		5.51		4.53		3.01		14.11		6.00		4.26		64.33			
KILAUEA POINT 1133	.86	1.04	2.30		3.98		5.72		4.92		3.65		2.56		2.18		4.77		5.70		2.77		40.45			
KOLO 1033	1.66	3.59	1.99	1.79	1.42	1.35	7.42	.59	2.17	1.14	1.80	1.26	.31	.20	.28	.58	1.08	.89	4.35	2.42	5.03	2.57	2.67	1.70	23.18	2.06
KOLU 936	1.41	.34	3.30		2.94		7.90		12.93		6.32		6.00		5.10		4.81		11.05		6.94		70.64			
KOLU LN (MAK) 940.1	.86	.17	.78		1.19		4.52		3.58		1.86		1.27		.88		4.81		5.69		1.49		28.10			
KOLU MAUKA 994	2.07	1.22	3.40		5.45		9.32		11.31		8.03		8.03		5.57		6.40		9.23		6.81		77.24			
KUKULUA 934	1.19	.12	2.67		2.70		4.49		4.11		2.77		1.71		2.59		3.77		8.85		4.55		42.02			
LIHUE VARIETY ST 1062.1	.94	.52	3.16		6.50		8.20		7.37		6.33		5.20		4.19		7.29		10.62		5.31		65.63			
LIHUE 1020	1.68	.23	2.17		4.05		4.87		6.15		3.44		1.98		2.22		6.11		10.10		3.95		46.95			
LIHUE WSO AP 1020.1	1.37	4.87	.54	3.74	1.49	3.18	2.11	1.14	4.56	2.13	4.56	2.99	2.74	.87	1.19	1.02	1.85	.00	11.02	7.18	3.79	1.84	3.99	2.45	39.11	5.07
MAKALEI 964	1.29	.41	.90		.52		1.62		1.15		.42		.21		.14		3.06		5.04		3.13		17.89			
MAHA 1026	1.46	3.48	4.77	2.09	1.41	1.25	1.91	.29	2.47	1.42	1.07	.58	.40	.22	.16	.61	.05	.97	4.36	2.55	4.11	1.67	1.98	2.08	19.85	4.19
MCHHI UPR CROSS 1083	3.52	1.34	1.72		1.00		11.90		11.23		2.35		2.87		.21		8.60		4.19		11.13		59.06			
MOLOKA 1145	3.92	.46	2.19		1.83		7.70		3.65		1.89		2.72		1.74		11.04		6.18		4.28		43.28			
MOUNT MAHALEALE 1047	2.66	1.68	21.77		36.17		36.00		58.69		*		*		99.48		*		*		75.30		331.75			
NIU RIDGE 1035	2.76	3.57	1.98	1.02	1.98	1.18	2.08	.06	2.35	1.59	2.01	1.32	.75	.55	.00	1.01	.00	1.55	8.39	4.05	1.23	1.66	2.49	2.50	25.70	4.14
N WAILUA RIVER 1051	3.68	.89	8.29		14.40		20.35		23.08		19.33		22.88		10.77		12.59		19.52		7.94		142.84			
N WAILUA RIVER 1055	1.00	.16	4.40		2.00		11.80		4.40		15.20		9.80		9.20		11.00		9.80		7.00		94.80			
PR HAINA 1115	6.39	6.62	1.94	10.58	9.75	5.58	9.87	2.71	14.65	5.33	32.83	27.17	4.54	3.46	11.50	2.80	7.29	2.12	7.60	1.33	14.22	2.09	4.24	4.07	130.87	3.19
RINCEVILLE RANCH 1117	3.41	5.40	1.86	5.27	5.16	5.43	7.43	.06	9.76	2.98	10.99	6.40	4.16	.22	7.39	1.08	4.86	.61	7.19	.55	11.30	1.82	5.67	3.81	81.18	6.75
SPRINGVILLE RANCH 1117	3.41	5.40	1.86	5.27	5.16	5.43	7.43	.06	9.76	2.98	10.99	6.40	4.16	.22	7.39	1.08	4.86	.61	7.19	.55	11.30	1.82	5.67	3.81	81.18	6.75
PUEHU RIDGE 1040	2.89	3.74	2.06	1.60	2.04	1.21	3.23	.64	6.36	4.40	2.38	1.58	1.18	.08	.22	1.45	.27	1.54	3.44	.67	5.30	1.91	2.46	3.21	31.83	3.69
PUNI 1013	1.05	.22	1.28		2.64		3.40		3.93		1.75		.86		.62		3.84		9.22		4.36		34.17			
WAIHANA 930	1.22	4.58	.30	3.29	1.36	2.18	1.97	.71	4.58	2.83	4.80	3.43	1.71	.00	1.95	.28	1.65	.11	3.41	.50	6.74	2.87	5.00	.47	34.69	2.05
WAIHAI LOWER 1054	2.20	8.38	1.36	7.45	5.32	3.64	7.75	.51	7.40	18.23	11.20	13.14	3.47	3.32	2.32	2.05	.66	8.55	.62	15.87	3.68	9.94	2.70	121.91	4.93	
WAIHAI UPPER 1052	2.21	10.60	1.21	9.30	6.84	6.62	12.20	.19	15.79	5.20	21.98	12.99	15.83	3.99	14.50	3.40	9.44	.27	9.08	2.13	16.20	2.87	10.92	3.96	137.70	4.63
WAIHAI 943	1.51	.17	4.66	1.90	2.67	.97	1.53	.05	3.28	2.24	.44	.13	.30	.14	.21	.40	.03	.78	7.52	1.81	4.55	2.49	1.38	2.75	19.96	2.35
WAILUA RAI 1065	.82	.18	2.00		3.72		4.78		3.98		2.91		2.36		2.91		3.45		10.21		5.04		142.84			
WILHELM 947	1.20	3.38	4.49	2.46	1.00	1.22	3.72	.92	3.73	2.68	.54	.30	.40	.16	.09	.74	.03	.63	2.45	1.01	1.59	2.80	16.28	6.91		
WEST LAWA 931	1.09	.18	2.57		3.70		5.68		6.05		3.16		2.48		7.73		3.83		8.86		4.43		44.76			
ISLAND	2.42		1.00		3.71		5.08		7.92		9.48		4.89		5.36		3.29		6.11		8.96		5.21		63.43	63.43
ISLAND OF MAUI																										
ALPHA STATION-HALAWA	.82	.11	1.53		3.80		3.12		2.80		.14		.65		.69		7.28		3.81		3.06		27.81			
BEKETANIA PUMPING STA	.73	.22	2.18		3.92		4.36		2.19		.76		.62		1.28		7.52		4.17		4.10		32.05			
B W U LAIE 903.1	5.06	.47	4.18		3.74		4.30		4.39		3.32		3.28		2.32		8.05		6.62		3.28		121.91			
CAMPBELL INO PK 702.5	1.13	.13	.64		3.27		4.56		.95		.10		.30		.02		8.74		4.52		1.72		26.08			
CAMP 84 807	1.67	.32	1.89		3.65										.02											
COCONUT ISLAND 840.1	1.14	.71	2.54		3.95		6.26		2.60		1.06		2.55		1.62		7.45		6.44		3.08		39.89			
EWA PLANTATION 741	1.43	3.58	4.46	1.99	5.56	2.34	3.23	1.85	2.94	2																



## TOTAL PRECIPITATION AND DEPARTURES FROM NORMAL

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TABLE 2 HAWAIIAN ISLANDS AND DEPARTURES FROM HONOLULU																										HAWAIIAN ISLANDS AND DEPARTURES FROM HONOLULU		
STATION		JANUARY		FEBRUARY		MARCH		APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER		OCTOBER		NOVEMBER		DECEMBER		ANNUAL		
		PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	
WILHELMINA RISE 771		R	1.30-4.20	1.71-2.78	3.40-1.31	7.08	3.54	6.52	4.15	5.48	4.11	1.90	-.34	3.06	-.79	2.50	-.74	11.58	8.44	3.54	-.76	7.44	1.90	55.51	14.72			
ISLAND			7.40	1.42	4.55	7.14		10.23		7.43		9.95		6.80		3.88		10.93		8.31		6.23		75.27	51.13			
ISLAND OF MOLOKAI																												
KALAUPAPA 563		A	2.33	.78	6.09	2.37		8.41		.88		2.29		6.50		1.55		7.05		7.02		5.75		51.02				
KAUNAKAKAI 536		A	.14	.00	1.46	.58		2.26		.15		.00		.05		.00		2.61		2.57		1.78		11.68				
KEONELELE PENS 551		A	.28	.00	3.03	1.06		5.55		.00		.70		.00		.00		.86		8.78		7.57		22.13				
KUALAPUU 534		A	1.43	.75	3.23																							
MAUNALO 511		A	.17		2.96																							
MOLOKAI AP 524		A	.63	.29	2.67	1.48		7.11		1.14		.19		.13		.87		3.16										
WAIKOLU 540		A	1.78	2.28	14.33	5.96		14.14		8.47		3.11		3.74		2.91		11.07		23.04		.00		90.33				
ISLAND			.63	.29	2.67	1.48		7.11		1.14		.19		.13		.87		3.16		.00		.00		17.67	66.23			
ISLAND OF LANAI																												
KANFEPU 690		A	.60	.30	1.51	1.83		1.72		5.10		.52		.58		.37		.71		7.88		7.54		23.76				
KAUHALAPUO HARBOUR 698		A	.22	.24	.70	1.24		1.98		1.12		.70		.27		.02		1.51		2.46		1.30		11.06				
LANAI AIRPORT 656		A	.54	.44	1.32	2.21		1.71		1.46		.7		.22		.08		4.08				1.18						
LANAI CITY 672		A	1.75	.70	3.29	2.17	-.88	4.83	-1.72	2.33	1.05	.58	-1.56	.15	2.52	.33	-1.89	6.62	4.14	4.08	-.05	1.65	2.48	32.81	5.28			
LANAIHALE 684		A	1.91	.63	3.29	2.17						.70		3.74														
MAHANA 605		A	2.07	.05	3.13	1.01		1.10		.68		1.22		.21		.20		.71		6.36		2.01		18.35				
MALAEUA 676		A	.07	.05	1.18	.18		.70		1.01		.08		.33		.33		.71		6.39		.98		11.68				
WAIKAEKUA 685		A	.27	.46	1.75	1.79		1.80		1.55		.04		.10		.18		5.97		2.12		1.15		16.98				
ISLAND			1.75	.70	3.38	2.41		4.83		2.33		.58		4.15		.33		6.62		4.08		1.65		32.81	20.28			
ISLAND OF MAUI																												
AUWAHI 257		A	1.33	.74	3.17	1.05		3.39		.15		1.25		.65		.53		7.53		1.60		2.90		24.29				
HAELAAU 477		A	5.00	2.00	10.80	10.50		11.20		8.00		14.50		*		24.00		6.80		*		31.50		124.30				
HALEAKALA B E S 434		A	2.74	.75	8.53	4.03		5.14		5.52		4.10		4.54		2.38		5.68		9.60		16.75		68.74				
HALEAKALA RANCH 492		A	1.60	.29	5.22	2.61		3.98		1.92		.37		1.99		.78		4.62		6.53		11.54		41.35				
HALEAKALA S S 338		A	.95	-7.38	.29	-6.45	5.52	-.19	2.73	-1.30	2.91	-.49	3.27	2.06	.57	-.50	3.48	-.71	.91	-.01	2.69	-.94	3.66	-2.09	9.36	-.70	37.44	-16.30
HALIIMAILF 423		A	2.88	.33	5.11	3.08		3.85		2.41		1.44		2.12		.98		5.49		9.12		15.09		51.90				
HAKAUPOKO 485		A	3.40	-1.70	.47	-4.38	5.63	-.18	3.25	-1.25	5.37	-2.54	3.85	1.46	4.92	1.32	5.50	1.85	3.64	1.75	9.30	5.61	14.23	9.16	8.64	1.91	68.20	18.09
HANA 354		A	3.98	.52	8.28	5.70																						
HANA AIRPORT 355		A	.77	.88	8.28	6.67		14.00		4.12		5.09		6.27		3.90		14.88		17.39		8.32		92.57				
HOLUA GATE 259.5		A	.70	*	2.60	4.63		2.00		2.96		1.99		3.06		1.59		2.12		3.87		3.10		27.12				
HONOKOHUA 483		A	20.60	2.60	12.10	9.40		13.70		9.00		16.40		7.10		21.48		25.80		13.80		16.57						
HONOKOHUA 493		A	1.45	.51	3.42	2.48		4.50		4.50		2.58		3.14		7.64		5.16		6.29		5.57		47.44				
HONOLULU FIELD 49 494		A	4.29	.34	3.68	2.61		4.76		2.93		2.12		3.44		2.47		7.06		8.35		4.60		46.55				
HONOMANU GULCH 341		A	.00	1.00	11.80	5.80		6.00		10.00		8.80		9.00		4.40		10.60		6.90		15.40		89.70				
KAAHAPALI AP 453.1		A	.78	.17	1.63	1.26		2.66		.76		.16		.19		.16		2.05		7.20		3.47		14.99				
KAHOMA INTAKE 374		A	3.70	1.75	6.70	3.50		3.90		3.30		2.50		4.90		4.20		9.44		4.60		5.40		54.09				
KAHULUI WCD 398 AP		R	.18	-3.41	.86	-1.78	2.19	-.68	.26	-.99	.82	-.20	.61	.40	.40	.01	.98	-.64	.25	-.02	1.09	-.91	5.15	2.82	4.46	2.62	19.15	.72
KAILIILI 436		A	16.82	4.69	19.30	6.84		8.27		12.13		.82		6.07		20.95		20.95		15.09		22.61		156.67				
KAILUA 444		E	3.92	-5.29	1.05	-9.24	14.72	-1.76	7.64	-4.07	9.23	-.23	10.02	2.92	11.95	1.28	14.65	9.42	2.44	19.83	9.76	20.58	8.29	15.32	2.81	140.43	16.31	
KAUHAU INTAKE 375		A	.12	.03	4.34	2.34		4.74		1.79		1.65		2.47		1.47		1.18		6.60		3.93		30.66				
KEAHUA 410		A	.88	-3.21	.15	-2.99	2.51	-.57	.65	-1.13	2.16	-1.45	.62	.34	.26	-.24	1.11	.64	.18	-.15	4.64	3.42	4.89	2.29	7.05	3.18	25.10	3.03
KEANEE 344		A	7.10	7.40	18.50	14.90		18.50		19.10		22.80		27.10		14.90		32.70		32.70		23.60		226.66				
KEAWAKAPU BEACH 240.2		A	.66	.21	.90	.14		1.09		.13		.04		.34		.00		.46		1.85		2.36		8.18				
KIHI 311		A	.90	-2.77	.42	-1.44	1.96	-.07	.19	-.60	1.46	-1.19	.7	-.10	.06	-.09	.05	-.14	.7	-.07	.84	-.16	1.40	-.28	2.73	-.34	9.91	3.87
KIPAHULU 758		A	1.84	-7.58	.77	-6.24	7.98	-1.37	8.57	-1.24	6.45	-.36	5.96	-.91	6.00	2.92	7.16	-.52	4.81	-1.22	8.77	-.38	5.69	3.97	1.27	4.92	71.22	-27.08
KUKUI 380		A	10.10	4.50	41.20	34.00		34.40		30.00		40.00		35.00		24.00		13.60		*		61.00		327.80				
KULU SANATORIUM 267		A	1.21	-4.33	.21	-3.24	3.39	-.14	.53	-.23	4.78	-2.58	.63	-.78	.25	-1.92	3.91	1.84	.87	-1.06	4.72	2.81	4.57	1.62	2.22	-1.39	32.09	1.76
LAHAINA 341		A	.76	-3.44	.04	-1.61	3.93	-1.11	1.13	-.20	1.43	-.95	.47	.38	.18	-.03	.42	.09	.00	-.25	1.13	.23	3.00	.93	2.98	-.12	11.97	3.54
LAUNIPOKHI INTAKE 376		A	1.06	.65	3.46	1.57		4.85		5.52		1.54		1.93		2.40		1.63		4.02		2.74		31.67				
LAUNIPOKHI VILLAGE 377		A	.24	.71	1.66	.68		1.66		.12		.00		.37		.00		.92		2.36		1.94		9.00				
LUPU UPPER 442		A	20.20	2.50	15.00	10.90		11.00		11.00		15.90		21.50		9.30												

## TOTAL PRECIPITATION AND DEPARTURES FROM NORMAL

HAWAII AND PACIFIC  
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TABLE 2

STATION	JANUARY		FEBRUARY		MARCH		APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER		OCTOBER		NOVEMBER		DECEMBER		ANNUAL	
	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE
HALEPOHAKU 111	.66		.21		1.79		1.32		3.14		1.47		2.32		3.34		.21		2.34		7.31		.54		24.65	
HALES FAIR 85.3																										
HAWAII VOLCANO NP HQ 54	3.07	7.54	1.70	8.53	7.56	4.19	7.54	2.56	8.65	.90	7.21	2.54	9.98	4.75	5.73	1.47	3.26	1.32	6.79	.10	21.61	10.14	12.62	.29	95.72	7.09
HAWI 168	5.05		.29		5.69		3.90		2.35		4.66		8.21		5.05		1.42		5.01		8.42		3.22		53.27	
HILO COUNTRY CLUB 86.6	9.42		5.49		10.46		21.72																			
HILO WSO AP 87	5.41	3.66	4.26	8.66	12.95	.74	6.53	6.35	9.64	.43	10.99	4.38	11.19	1.05	13.53	2.65	5.44	2.00	10.12	.34	20.21	6.44	8.82	6.94	119.09	14.48
HOLUALOA 70	.53				5.30		3.20		3.72		12.30		6.50		7.90		4.70		3.50		3.08		.90		47.91	
HOLUALOA BEACH 68	.03		.02		.42		1.72		3.20		8.68		2.28		1.98		2.05		3.50		2.81		1.10		27.24	
HONANAU 27	.91	1.69	1.43	1.83	6.55	1.29	4.87	1.28	8.25	3.68	13.40	8.57	7.88	3.09	9.85	4.79	7.50	2.97	5.11	1.10	3.48	.87	2.71	.51	68.84	24.63
HONOHINA 137	11.44	2.43	1.93	12.10	10.41	7.14	6.49	8.34	8.16	4.17	11.84	4.81	14.53	3.50	18.32	5.30	6.49	1.57	11.44	.35	18.53	4.47	9.06	8.63	128.64	21.79
HONOMU MAUKA 138	10.54	2.07	8.84	8.87	21.05	.87	14.41	0.81																		
HONULULU 71	.35				3.93		2.80				6.60		3.00		3.80		1.90		1.80		3.50		.50		28.18	
HUALALAI 72	.50				.35		1.55		*		2.04		1.03		1.55		1.92		.05		2.60		.10		11.69	
HUEHUE 92.1	1.08		.03		2.20		3.93		6.39		3.32		3.26		3.32		4.26		1.43		2.40					
KAALA 1K1 12	2.12		1.21		5.11		4.08		10.24		3.75		2.97				1.26		13.41		16.28		5.37		68.77	
KAAMALOA 29	.42		.19		2.96		3.25		7.67		7.40		5.04		6.70		9.04		3.90		3.68		1.95		52.20	
KAINALIU 73.2	.42	3.65	.68	2.20	3.36	1.80	5.41	.48	6.56	.39	10.67	3.41	5.93	2.15	9.89	1.75	13.19	5.94	3.58	1.78	3.76	.53	2.13	1.48	65.61	3.36
KALAOA 69.22	.58		.36		4.31		3.84		10.06		4.59		6.40		7.34		7.73		3.47		4.23		3.03		55.94	
KALAPANA 1 67.8	1.80		1.70		4.47		4.75		7.88		4.62		4.00		4.98		1.61		6.38		14.56		9.24		65.96	
KAMADA 2 5	.82		1.27		4.93		2.30		2.27		4.38		3.04		3.27		1.72		4.93		12.01		6.97		47.91	
KAMUELA 192.2	2.35	1.86	.64	3.14	3.76	.21	2.34	1.21	3.78	1.58	2.39	.82	2.16	.17	1.67	.85	.31	.76	1.32	.71	2.66	.12	4.43	.41	27.79	7.04
KAPAPALA RANCH 36	2.08		1.80		4.38		6.74		6.05		3.16		4.29		1.96		.57		12.73		18.92		3.08		65.74	
KAPOHO BEACH 93.11	3.50		2.33		4.74		9.25		3.86		5.37		5.44		9.19		3.87		9.17		19.09		5.07		80.88	
KAPOHO LANDING 93.5	4.93		4.11		6.40		7.89		7.37		6.99		8.84		13.92		1.94		7.51		19.96		5.87		95.73	
KAWAIIUNI LOWER 193	25.74		4.22		20.80		6.67		5.69		10.64		26.05		18.54		12.18		12.91		25.08		19.06		187.58	
KEAUA 92	4.02		3.20		10.95		7.74		9.02		13.23		15.28		16.95		6.69		10.98		25.98		9.90		113.34	
KIOLA KAA 2 F 6	2.83		*.64		4.42		4.50		5.30		5.30		5.20		4.90		2.05		10.13		12.20		7.50		66.63	
KIPA 89.2	7.80		5.89		18.58		18.15		19.97		17.19		32.50		29.00		9.59		14.44		26.01		16.77		214.89	
KOMALA MISSION 174.1	6.65	.98	.71	4.46	6.56	.72	4.90	1.11	2.58	1.94	4.75	1.13	4.72	3.24	5.99	.74	1.86	.69	5.36	.92	11.91	6.65	3.78	3.78	63.28	.02
KOIWAE LOWER 196	13.32		2.57		11.07		4.41		3.97		7.52		17.63		11.83		5.65		7.07		17.41		12.91		116.56	
KONA (KAILUA) 68.3	.08		.00		1.33		2.78		2.53		2.83		1.22		3.37		1.33		.54		1.94		.98		18.93	
KONA VILLAGE 93.8	.40		.00		.92		.50		1.78		.64		.02		.58		.58		.97		2.25		.72		8.68	
KUKIAU 272	18.86	11.53	3.61	8.01	11.22	3.17	7.77	5.31	10.26	6.07	10.71	7.39	11.13	5.24	14.57	6.09	3.35	.01	5.03	2.37	16.95	7.27	13.59	.43	119.07	19.15
KUKUIHAELE HIC 199	15.10	9.40	1.77	5.28	10.86	1.00	5.83	2.34	3.56	2.02	7.46	4.50	8.64	3.71	10.40	4.73	2.22	.51	5.14	.44	23.66	17.16	8.81	.36	103.45	29.55
KUKUIHAELE MILL 206	13.06		1.91		7.73		4.50		2.04		6.50		4.55		7.15		1.28		3.76		18.32		6.99		79.79	
KULANI CAMP 79	3.64		1.65		7.50		7.01		10.11		7.76		10.13		7.57		3.84		8.91		18.14		10.19		96.45	
KULANI MAUKA 76	.33		.28		1.75		2.69		3.44		3.60		3.04		2.45		1.22		4.44		6.72		2.07		32.03	
KULANI SCHOOL SITE 78	1.98		.95		5.78		5.90		5.34		7.24		8.87		4.79		3.89		6.57		13.10		11.41		75.82	
LANIHAU 64.2	.13		.62		5.26		4.42		9.88		9.99		8.61		13.01		9.29		3.51		4.40		3.02		72.14	
MAKAWALUA 103	2.77		.77		2.96		1.40		2.83		1.99		1.07		1.22		.00		1.71		2.88		9.25		27.35	
MANUKA 2	.51		.80		6.35		6.36		6.90		5.15		4.50		6.80		3.19		7.05		7.05		.96		52.23	
MAUNA KEA OBS 111.2	.08		.00		T		.51		.64		.55		.79		2.71		.08		.41		2.35		.73		9.25	
MAUNA LOA SLOPE OPS	.01		.00		.41		1.15		2.77		1.43		1.25		2.50		.44		.32		7.31		.52		18.11	
MIDDLE HOLUALOA 64.1	.26		.11		2.23		4.16		4.23		10.05		2.59		5.55		3.13		1.18		3.00		2.40		38.89	
MIDDLE PEN 147.1	.79		.10		.73		.43		2.05		.69		.20		1.60		.00		2.17		1.14		.51		10.41	
MOAULA 18	.12						2.32		3.50		2.05		1.50		.90		.00		.00		5.30		.40		-	
MOUNTAIN VIEW 91	6.19	6.00	3.70	12.93	14.92	5.46	10.35	9.51	11.84	4.83	13.50	2.84	22.46	7.63	17.01	.20	8.40	2.44	12.61	1.42	21.81	3.13	15.49	4.62	158.28	32.81
NABLEHU 14	.92		.64		4.44		3.21		3.76		3.87		2.72		3.22		.35		8.94		14.76		7.16		53.99	
NAPOOPOO 28	.08		.40		2.50		2.35		4.52		6.46		3.10		3.82		3.44		2.06		4.64		1.73		35.10	
OOKALA 223	14.66	7.52	2.78	8.56	10.92	3.14	8.27	4.87	3.76	5.59	11.50	7.07	13.50	6.26	12.05	2.62	4.00	.59	5.57	2.49	18.16	7.79	13.20	.59	118.37	5.45
OPIHIHAELE 2 24.1	.80		1.26		1.67		2.67		9.89		7.22		4.71		5.15		5.88		3.37		4.38		2.42		49.42	
ORCHID LAND EST 91.5	5.00		4.66		9.04		7.71		7.57		9.65		15.37		14.62		2.60		15.50		29.74		10.28		131.74	
PAALUHA 217	13.32	8.51	1.47	5.60	10.22	1.37	5.36	2.43	1.81	2.62	5.71	3.85	5.69	2.21	6.84	2.32	1.66	.54	4.71	.32	17.42	11.50	10.41	1.88	64.62	19.93
PAALUO 271	15.66	9.11	2.52	7.92	11.82	1.11	6.32	4.86	1.1																	



## TOTAL PRECIPITATION AND DEPARTURES FROM NORMAL

TABLE 2

HAWAII AND PACIFIC  
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STATION	JANUARY		FEBRUARY		MARCH		APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER		OCTOBER		NOVEMBER		DECEMBER		ANNUAL	
	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE	PRECIP	DEPARTURE
PACIFIC																										
* * *																										
EAST OF 180TH																										
MERIDIAN																										
ATU'U	34.46		8.86		35.97		11.47		14.00		6.63		5.45		17.34		10.17		9.51		33.83		14.42		204.11	
CANTON ISLAND	6.69		2.83		.63		.78		.92		1.09		.85		1.80		1.81		.62		.08		6.07		24.76	
FALEASAD VILLAGE	21.90		19.20		28.15		11.98		23.81		15.02		19.78		26.04		17.00		24.15		43.78		25.45		275.70	
JOHNSTON IS WSO AP	5.59	2.00	.26	1.49	1.53	1.32	.56	1.97	1.01	1.21	1.08	.05	2.01	.92	4.08	1.50	2.89	.84	2.10	1.38	2.58	.28	5.39	2.00	24.08	3.94
LEONE	30.09		9.85		24.83		8.48		9.15																	
FRENCH FRIGATE SHOALS	1.23	3.64	1.33	1.48	1.41	2.37	.31	2.85	6.83	4.51	4.40	2.93	2.54		3.39	1.65	.53	1.44	2.23	1.72			2.43	2.42		
MIDWAY SAND ISLAND	4.44	.23	2.09	1.83	3.59	.59	1.30	1.07	.72	1.50	2.18	.78	2.99	.47	4.54	.71	4.28	.42	2.15	1.61	1.70	2.25				
MALAELOA																					35.00					
PAGO PAGO WSO AP	21.36	9.09	9.52	4.64	25.64	13.57	9.24	3.02	8.71	1.98	2.62	6.79	3.48	3.46	16.46	9.06	4.71	1.37	10.00	2.10	25.67	15.36	15.62	.77	153.03	24.49
WESTERN PACIFIC ISL, NORTH OF 12 N																										
AGAT													9.49		22.86		17.20				13.79		5.18			
ANDERSEN AFB GUAM	1.96	2.91	5.30	1.26	.89	1.81	3.69	.02	2.63	1.77	9.86	5.22	8.90	.49	17.68	6.37	10.52	3.04	8.72	5.31	16.34	8.38	6.14	.28	93.23	7.18
CLARK AFB LUZON	7	.59	.35	.16	.72	.13	.90	.63	5.97	.49	5.66	5.23	10.17	2.29	29.69	12.77	15.52	1.08	18.64	13.17	11.22	2.25	3.79	2.41	92.63	17.76
DEDEO													7.73		21.50		12.71		11.84		18.07		4.92			
GUAM NAS	.99	3.57	2.15	.57	.40	1.88	2.16	1.67	3.86	.86	11.19	6.28	11.08	1.98	16.28	4.40	9.85	4.28	10.14	3.00	16.15	7.43	3.88	1.19	88.13	3.07
GUAM WSO	2.44	2.72	4.99	.73	.85	2.09	2.65	1.38	3.48	1.01	7.89	2.70	8.91	.68	19.63	7.47	10.01	4.07	10.49	3.91	14.10	5.59	4.80	1.05	90.24	1.42
INARAJAN AG STN													7.42		16.69		11.11		6.61		18.80		5.37			
INARAJAN - NASA													9.16		18.09		10.84		9.87		17.58		5.06			
HANGILAD	2.31		3.56		.98		2.38		5.36		10.32		6.49		17.83		10.37		10.52		13.24		3.27		86.13	
ROTA	2.30		1.50		.93		.64		3.05		11.36															
SAIPAN LORAN																							4.47	.51		
UMATAC																							5.23			
WAKE ISLAND WSO AP	1.00	.08	.33	.88	1.90	.30	4.14	1.92	2.35	.10	5.42	3.07	2.57	1.88	5.09	1.76	7.58	1.89	3.09	2.36	4.21	1.19	1.16	.57	38.84	1.44
YIGO													10.02		21.19		14.45		13.15		10.64		5.95			
* * *																										
CAROLINE AND																										
MARSHALL ISLANDS																										
ANGUAR																										
ENWETAK									3.66	.70	1.44	2.50														
FALALOP I ULITHI ATOLL					1.16	2.55	2.97	2.78	1.92	8.57																
KAPINGAMARANGI ATOLL									4.02																	
KOROR WSO	10.34	.45	22.46	15.03	6.02	1.77	9.98	.29	12.52	2.01	16.04	2.29	9.13	7.06	20.36	4.96	10.85	2.14	20.06	7.47	17.56	6.99	10.33	2.54	164.75	21.06
KWAJALEIN MISSILE RGN	13.86	10.12	6.31	3.66	4.59	1.62	5.30	.61	15.81	6.10	7.11	2.82	8.52	1.18	5.48	4.72	8.75	2.12	11.47	.50	16.16	4.70	3.14	6.09	106.50	5.22
LELE I KOSRAE			7.36	12.75	11.85	8.09	10.49	12.63	13.31	6.21	11.06	7.74											20.18	1.56		
MAJURO WSO AP	3.40	5.36	5.25	1.73	3.39	5.86	17.65	2.34	13.90	1.75	10.70	1.47	16.25	2.61	8.86	2.92	9.73	4.66	20.56	4.56	23.56	8.18	14.35	2.47	142.80	.09
MEYALANIN	13.54		7.62		6.19		19.52		8.31		18.03		8.59		6.92		14.93		15.87		15.68		8.39		143.79	
MOKIL ATOLL																										
NGASANG-RABELTHUAP	16.41																		15.47				8.46			
PONAPE WSO	14.38	4.63	6.18	5.76	6.17	8.87	14.91	.67	12.82	6.61	19.27	3.61	10.28	7.54	13.62	3.08	11.44	5.32	16.97	.55	13.19	3.98	14.00	1.95	159.23	34.49
SATAKAN ATOLL																										
TRUK MOEN I WSO AP	5.73	2.86	2.29	4.11	4.85	3.13	8.17	5.00	13.25	2.49	10.10	2.49	8.40	7.01	14.37	.93	14.98	1.91	21.21	7.82	12.99	1.00	12.47	1.45	128.81	16.88
WOLEAI ATOLL							10.24		8.09		8.54						11.80									
YAP WSO AP	4.22	4.22	5.25	.16	2.04	3.54	3.38	.60	4.87	5.16	12.89	1.99	8.67	5.97	18.52	3.38	19.17	6.08	18.10	5.68	11.09	1.06	8.98	.90	119.18	2.36

See Reference Notes Following Station Index

Table 3

## TEMPERATURE EXTREMES

HAWAII AND PACIFIC  
1978

Station	Highest	Date	Lowest	Date	Station	Highest	Date	Lowest	Date
HAWAII					PACIFIC				
* * *					* * *				
ISLAND OF KAUAI					EAST OF 180TH MERIDIAN				
KANALOHULUHULU 1075	78	7-24	35	2-24*	CANTON ISLAND	92	12-12*	68	8-22
KILAUEA POINT 1133	94	10-14	59	4-23	JOHNSTON IS WSO AP	86	10-14*	69	3-1*
KOLOA LN (MAK) 940.1	93	10-30	57	2-3	LEONE	-	-	-	-
LIHUE WSO AP 1020.1	88	10-29*	57	1-12	FRENCH FRIGATE SHOALS	90	9-17	59	10-18
NIU RIDGE 1035	91	7-27	50	2-13*	MIDWAY SAND ISLAND	89	9-26*	51	2-28
WAIKANI LOWER 1054	84	10-15	47	1-13*	PAGO PAGO WSO AP	91	12-31	64	7-6
WAIKANI 947	-	-	-	-	* * *				
* * *					WESTERN PACIFIC ISL, NORTH OF 12° N				
ISLAND OF OAHU					ANDERSEN AFB GUAM	90	7-13	69	2-4*
ALOHA STADIUM-HALAWA	91	5-22	57	2-21*	CLAPHAM AFB LUZON	99	5-11	66	2-19*
8 Y U LAIE 903.1	93	8-22	57	1-13*	GUAM NAS	91	8-4*	68	2-20
HONOLULU OBSERV 702.2	92	9-1*	-	-	GUAM WSMO	90	6-1*	56	1-15
HONOLULU WSO 703 AP	91	8-14	57	1-13*	INARAJAN - NASA	90	9-26*	-	-
KANEOME MAUKA 781	85	10-18*	62	12-27	SAIPAN LORAN	-	-	-	-
MANOA LYON ARBRETUM	88	10-29	57	3-3*	WAKE ISLAND WSO AP	93	8-27	68	3-29*
OPAEULA 870	87	10-29*	52	2-24	* * *				
WAIKALEE 896.3	86	10-14*	60	2-20*	CAROLINE AND MARSHALL ISLANDS				
WAILALUA 847	92	7-7	52	2-24*	ENEWETAK	-	-	-	-
WAIPIKI 717.2	92	8-15	53	1-12	FALAPLOP I ULITHI ATOLL	-	-	-	-
* * *					KAPINGAMARANGI ATOLL	95	5-17	-	-
ISLAND OF MOLOKAI					KOROP WSO	92	5-25	70	9-25
MOLOKAI AP 524	92	8-16*	56	4-4	KWAJALEIN MISSILE RGN	91	10-19	71	7-19*
* * *					LELE I KOSRAE	-	-	-	-
ISLAND OF LANAI					MAJUORO WSO AP	89	11-2*	71	12-8*
LANAI AIRPORT 656	-	-	53	12-22*	METALANIM	92	10-15	70	9-25*
LANAI CITY 672	83	4-21	54	2-10	PONAPE WSO	92	11-5*	68	9-17
* * *					SATAWAN ATOLL	-	-	-	-
ISLAND OF MAUI					TPUK MOEN I WSO AP	91	10-6*	72	8-2
HOLEAKALA R 5 338	75	10-1	30	12-16	WOLEAI ATOLL	-	-	-	-
HANA AIRPORT 355	89	1-29	58	3-6*	YAP WSO AP	90	8-15*	68	2-8
KAAHAPALI AP 453.1	90	9-28*	58	1-18					
KAHULUI WSO 398 AP	93	8-4	57	2-10					
KAILUA 446	84	1-11	55	1-13*					
KEAWAKAPU BEACH 260.2	96	9-2*	55	1-18					
KULA SANATORIUM 267	84	8-31	45	12-31					
LAHAINA 361	93	10-17*	52	12-27					
UH AGRI RES CNTR 324.5	-	-	-	-					
* * *									
ISLAND OF HAWAII									
HAWAII VOLCANVS NP HQ 54	77	8-3*	34	1-18					
HILO WSO AP 87	89	4-20*	56	12-24*					
KAINALIU 73.2	85	7-22	53	1-8					
KAMUELA 192.2	82	10-22*	41	2-6					
KAPOHO BEACH 93.11	92	7-27	58	2-25*					
KONA (KAILUA) 68.3	90	10-2*	64	3-6*					
KULANI CAMP 79	76	10-2	32	2-11*					
MAUNA KEA OBS 111.2	-	-	-	-					
MAUNA LOA SLOPE 085	62	6-13	23	12-22					
MOUNTAIN VIEW 91	84	10-30*	50	2-27*					
NAALEHU 14	88	1-8	50	1-18					
OOKALA 223	84	11-1*	57	2-9					
OPIHIHALE 2 24.1	87	4-20	50	12-23					
PUUKOHOLA HEIAU 98.1	96	10-4	59	10-11*					
SOUTH KONA 2.31	86	8-22	45	4-30					
UPOLU POINT USCG 159.2	88	9-12*	58	2-25					

See Reference Notes Following Station Index

## TOTAL EVAPORATION AND WIND MOVEMENT

Table 4

Station		Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
HAWAII														
* * *														
ISLAND OF KAUAI														
LINAE WSO AP 1020.1	EVAP	5.94	6.93	8.69	9.52	8.85	9.04	10.41	11.008	10.01	9.878	6.788	-	-
	WIND	3486	3269	5672	5367	4871	5802	6497	5719	5587	4488	3520	-	-
	MAX	76.9	79.8	79.0	81.3	84.5	83.9	85.6	84.7	85.7	83.6	82.6	-	-
	MIN	57.5	55.8	58.1	60.4	64.2	64.5	65.8	66.4	66.2	63.8	60.0	-	-
* * *														
ISLAND OF OAHU														
HONOLULU OBSERV 702.2	EVAP	7.28	9.56	9.96	9.62	9.58	9.42	11.16	11.13	12.72	11.068	6.01	5.72	113.22
	WIND	1005	916	1211	1144	1061	1029	1174	936	886	820	721	1068	11971
	MAX	81.9	84.3	84.8	87.2	89.9	90.6	91.7	90.5	90.9	87.8	83.3	79.5	86.9
	MIN	60.5	61.1	63.2	64.8	67.7	68.4	69.0	69.2	68.6	66.2	63.7	61.4	65.3
PACIFIC														
JOHNSTON IS WSO AP	EVAP	10.83	9.31	11.23	-	10.598	10.12	11.558	9.778	10.368	-	7.99	8.658	-
	WIND	6329	4570	6533	5729	5815	5693	60518	5787	5774	-	5332	7087	-
	MAX	83.3	85.1	84.8	85.3	86.3	-	-	-	-	-	-	-	-
	MIN	68.8	67.9	68.2	67.7	72.5	-	-	-	-	-	-	-	-
PAGO PAGO WSO AP	EVAP	-	-	-	-	-	-	6.428	6.728	7.018	6.668	-	-	-
	WIND	-	-	-	-	-	-	4851	3938	3793	3843	3472	3949	-
	MAX	-	-	-	-	-	-	88.6	90.1	93.0	91.4	88.4	91.8	-
	MIN	-	-	-	-	-	-	70.1	73.5	71.9	73.5	73.1	74.0	-
* * *														
WESTERN PACIFIC ISL.														
NORTH OF 12 N														
GUAM WSMO	EVAP	7.30	6.10	9.46	7.72	8.55	6.55	5.90	6.108	5.338	6.328	5.468	5.95	80.74
	WIND	4001	3576	4020	4151	4492	2882	1490	2156	1406	2539	3721	4393	38827
	MAX	86.5	83.5	88.9	90.8	88.5	88.4	89.3	86.6	89.5	88.4	84.0	85.2	87.5
	MIN	68.9	67.0	68.5	71.6	71.0	70.7	71.5	70.7	71.8	72.2	71.3	69.7	70.4

See Reference Notes Following Station Index

# PRECIPITATION MEASURED IN STORAGE GAGES

HAWAII  
1977-1978

Station	Observation date	Amount since last obs.	Snow on ground	Station	Observation date	Amount since last obs.	Snow on ground	Station	Observation date	Amount since last obs.	Snow on ground
PAKI 352	1977										
	Sep 30										
	1978										
	Jan 4	-									
	Apr 3	32.00									
	Jun 30	52.00									
WAILUA IRI 348	Sep 29	58.00									
	1977										
	Sep 30										
	1978										
	Jan 4	39.00									
	Mar 31	19.00									
	Jun 30	79.00									
	Sep 29	46.00									

See reference notes following Station Index.

# STATION INDEX

HAWAII AND PACIFIC  
1978

Station	Index No.	Division No.	County	Drainage †	Latitude	Longitude	Elevation	Years of record			Opened or closed during yr.		Refer to tables
								Temp.	Precip.	Evap.	Month opened	Month closed	
HAWAII													
ISLAND OF KAUAI													
ALEXANDER RESV 987		0140	02	KOLOA	221 57	159 32	1610						C
ANAHOLA 1114	A	0145	01	KAWAIIHAU	122 08	159 18	180						2
BPYDESWOOD STA 985	A	0240	02	KOLOA	221 56	159 32	720		49				2
EAST LAKE 934	A	0456	02	KOLOA	221 55	159 30	440		78				2
ELEELE 927	A	0470	02	KOLOA	221 54	159 35	150		79				2
HALAULA 1110	A	0935	01	KAWAIIHAU	122 07	159 19	253		78				2
HALENANAO 1006	A	1038	02	LIHUE	221 58	159 26	490		48				2
HANAHANAPUNI 1055.2		1140	02	KAUAI	222 03	159 25	600						C
HANALEI TUNNEL 1053	A	1170	01	KAWAIIHAU	122 05	159 28	1218		1				2
HUKIPO 945		2161	03	WAIKOA	321 59	159 41	800		39				2
ILIILILUA INTAKE 1050	A	2222	02	LIHUE	222 02	159 28	1050		45				2
INTAKE WAINIHA PC 1086A		2227	01	HANALEI	122 09	159 34	690		15				2
KANALOHULUHULU 1075		3099	03	WAIKOA	322 08	159 40	3600	15	25				1 2 3 C
KANEHA RESERVOIR 1092	A	3104	01	KAWAIIHAU	122 08	159 23	830		17				2
KAPAA STABLES 1104		3159	01	KAWAIIHAU	122 05	159 20	175						C
KEALIA 1112	A	3982	01	KAWAIIHAU	122 06	159 19	9		80				2
KEKAHA 944		4272	03	WAIKOA	321 58	159 43	9		85				2 C
KILAUEA 1134	A	4561	01	HANALEI	122 13	159 25	320		94				2 C
KILAUEA POINT 1133		4568	01	HANALEI	122 14	159 24	180	28	29				1 2 3
KOLO 1033		4735	03	WAIKOA	322 04	159 46	36		43				2
KOLOA 936	A	4742	02	KOLOA	221 55	159 28	240		93				2
KOLOA LN (MAK) 940.1		4748	01	KAUAI	221 52	159 27	52		22				1 2 3
KOLOA MAUKA 994	A	4750	02	KOLOA	221 57	159 29	640		75				2
KUKULUA 935	A	495	02	KOLOA	221 54	159 30	100		77				2
LIHUE VARIETY ST 10621A		5560	02	LIHUE	222 01	159 23	380		17				2 C
LIHUE 1020		5575	02	LIHUE	221 59	159 22	207		75				2
LIHUE WSO AP 1020.1	R	5580	02	LIHUE	221 59	159 21	103	29	25				1 2 34C
MAKAWELI 965	A	5864	03	WAIKOA	321 55	159 38	140		88				2
MANA 1026		6082	03	WAIKOA	322 02	159 46	20		75				2
MOHIHI UPP CROSS 1083	A	6433	01	WAIKOA	322 07	159 36	3500		15				2
MOLOAA 1145	A	6529	01	KAWAIIHAU	122 11	159 20	330		53				2
MOUNT WAIKALEALE 1047	R	6565	03	WAIKOA	222 04	159 30	5148		32				2
NIU RIDGE 1035		6850	02	WAIKOA	322 02	159 44	1250	34	40				1 2 3
N WAILUA DITCH 1051	A	6888	02	LIHUE	222 04	159 28	1110		52				2
N WAILUA PIVER 1055	A	6893	02	KIHUE	222 04	159 26	650		1				2
PH WAINIHA 1115		8155	01	HANALEI	122 12	159 34	101		72				2 C
PPINCEVILLE RANCH 1117		8165	01	HANALEI	122 13	159 29	295		70				2 C
PUEHU RIDGE 1040		8205	03	WAIKOA	322 01	159 42	1660		40				2
PUIHI 1013	A	8217	02	LIHUE	221 58	159 24	329		44				2
WAHIKOA 930	A	8941	02	KOLOA	221 54	159 34	215		75				2 C
WAIKOA LOWER 1054		8958	02	LIHUE	222 01	159 27	565	25	50				1 2 3
WAIKOA UPPER 1052		8964	02	LIHUE	222 01	159 28	780		47				2
WAIKOA 943		9253	03	WAIKOA	321 59	159 43	10		85				2
WAILUA KAI 1065	A	9467	02	LIHUE	222 02	159 21	50		17				2
WAIKOA 947		9629	03	WAIKOA	321 58	159 41	20	1	67				1 2 3
WEST LAKE 931	A	9955	02	KOLOA	221 54	159 31	210		78				2
ISLAND OF OAHU													
AHUIMANU LOOP 839.12		0055	01	KOOLAUPOKO	121 26	157 51	320						C
ALOHA STADIUM-HALAWA		0172	03	OAHU	321 23	157 56	40	4	4				1 2 3
BERETANIA PUMPING STA		0211	02	HONOLULU	221 19	157 51	20		21				2
B Y U LAIE 903.1		0240	01	KOOLAUPOKO	121 39	157 56	20	7	7				1 2 3
CAMPBELL IND PK 702.5		0248	02	OAHU	321 19	158 07	10		8				2
CAMP 84 807		0300	03	EWA	321 26	158 04	760						C
COCONUT ISLAND 840.1		0350	01	KOOLAUPOKO	121 26	157 47	15		22				2
DOWSETT HIGHLDS 780.6		0438	02	HONOLULU	221 21	157 50	565						C
EWA PLANTATION 741		0507	03	EWA	321 21	158 02	5		88				2
HALAWA SHAFT 771.2		0964	02	HONOLULU	221 23	157 54	170						C
HAWAII KAI CRSE 724.19		1308	02	OAHU	221 18	157 39	21						C
HELEMANO INTAKE 881		1384	05	WAIKOA	521 33	158 00	1274						C
HOKULOA 725.2	A	1540	03	EWA	321 24	158 06	2260						C
HONOLULU OBSERV 702.2		1918	03	EWA	321 19	158 00	5	3	17	17			1 2 34
HONOLULU WSO 703 AP	R	1919	02	HONOLULU	221 20	157 55	7	33	33				1 2 3 C
KAALAKEI 724.6		2269	02	HONOLULU	221 18	157 43	10						C
KAENA POINT 841.3		2410	04	WAIKOA	421 34	158 15	1240		7				2
KAHANA 883	A	2462	01	KOOLAUPOKO	121 31	157 54	800		62				2
KAHUKU 912	A	2570	01	KOOLAUPOKO	121 42	157 59	15						C
KAILUA FIRE STA 791.3		2683	01	KOOLAUPOKO	121 24	157 45	10						C
KALIHI PES SITE 777	R	2960	02	HONOLULU	221 23	157 50	910		52				2
KANEHE MAUKA 781		3113	01	KOOLAUPOKO	121 25	157 49	325	39	51				1 2 3
KAPALAMA 773	A	3268	02	HONOLULU	221 21	157 52	614		57				2
KAWAIIHAPA 841	A	3734	05	WAIKOA	521 35	158 11	40		50				2
KEMOO CAMP 8 855	A	4318	05	WAIKOA	521 33	158 05	725		55				2
KOOLAUPOKO 833	A	4766	05	WAIKOA	521 30	157 58	1160		65				2
LULUKU 781.7		5655	01	KOOLAUPOKO	121 24	157 49	240						C
MAKAHA PUMP 800.2		5782	04	OAHU	421 29	158 12	400						C

See Reference Notes Following Station Index



# STATION INDEX

HAWAII AND PACIFIC  
1978

Station	Index No.	Division No.	County	Drainage	Latitude	Longitude	Elevation	Years of record			Opened or closed during yr.		Refer to tables
								Temp.	Precip.	Evap.	Month opened	Month closed	
ISLAND OF OAHU													
MAKAKILO 730.1	5789	03	OAHU		321 21	158 06	300		3				2
MANOA 712.1	6122	02	HONOLULU		221 19	157 49	220		61		MAR		2
MANOA LYON ARROPETUM	6128	02	OAHU		221 20	157 48	500	4					1 2 3
MANOA TUNNEL 7 716	6130	02	HONOLULU		221 20	157 48	650		52				2
MAUNAWILI 787.1	6222	01	KOOLAUPOKO		121 21	157 46	395						C
MOANALUA 770	6395	02	HONOLULU		221 21	157 54	20		79				2
MOUNT KAALA 844	6553	04	WAIANAE		421 31	158 09	4025						C
NUUANU PES 4 787	6928	02	HONOLULU		221 21	157 49	1048		75				2
NUUANU RESEPER 5 775	6933	02	HONOLULU		221 21	157 50	410		90				2
OPAULA 870	7150	05	WAIALUA		521 34	158 02	1060	74					1 3 C
PAIKO OF 723.4	7540	02	HONOLULU		221 17	157 44	10		3				2
PALI GOLF COURSE 788.1	7656	01	OAHU		121 23	157 47	480		8				2
PALOLO VALLEY 718	7664	02	HONOLULU		221 20	157 46	995		52				2
PAUOA FLATS 784	7810	02	HONOLULU		221 21	157 48	1640		52				2
PEARL COUNTRY CL 760.2	7942	03	OAHU		321 23	157 56	120						C
PUNALUU PUMP 905.2	8314	01	KOOLAUPOKO		121 35	157 54	20						C
PUNCHBOWL CRATER 709	8316	02	HONOLULU		221 19	157 51	360		29				2
PUPUKEA HEIGHTS 896.4	8342	01	WAIALUA		121 39	158 02	900						C
PUU MANAWAHUA 725.6	8500	03	OAHU		321 23	158 06	1690		2				2
TANTALUS 2 780.5	8738	02	HONOLULU		221 20	157 50	1325		16				2
UNIV OF HAWAII 713	8815	02	HONOLULU		221 18	157 49	79		54				2
UPPER WAIHANA 874.3	8838	05	OAHU		521 31	158 01	1115		8				2
WAIHANA DAM 863	8945	05	WAIHANA		521 30	158 03	854				DEC		C
WAIHOLE 837	8964	01	KOOLAUPOKO		121 28	157 53	745		63				2
WAIHALAE KAHALA 715	9185	02	HONOLULU		221 16	157 46	10		57				C
WAIHOLE 896.3	9190	01	KOOLAUPOKO		121 41	158 02	33	8	8				1 2 3
WAIHALUA 847	9195	05	WAIALUA		521 35	158 07	32	72	79				1 2 3 C
WAIANAE 798.2	9231	04	WAIANAE		421 27	158 11	10		84				2
WAIHANA 836	9261	03	EWA		321 28	157 56	800		63				2
WAIKANE 685	9340	01	KOOLAUPOKO		121 30	157 53	760		63				2
WAIKIKI 717.2	9397	02	HONOLULU		221 16	157 49	10	15	15				1 2 3
WAILUPE VLY SCH 723.6	9500	02	HONOLULU		221 18	157 45	180						C
WAIMANALO EXP FM 795.1	9523	01	KOOLAUPOKO		121 20	157 43	60		10				2
WAIMANALO NONOKI 795.2	9534	01	OAHU		121 20	157 43	120						C
WAIPIEA 892	9593	05	WAIALUA		521 38	158 04	330						C
WAIPIHAU 750	9738	03	EWA		321 23	158 01	59		81				2
WILHELMINA PIKE 721	9980	02	HONOLULU		221 18	157 47	1100		52				2
ISLAND OF MOLOKAI													
KALAUPAPA 563	2894	01	MOLOKAI		121 12	156 59	30		15				2
KAUNAKAWAI 536	3541	01	MOLOKAI		121 06	157 01	12		25				2
KAUNAKAWAI MAUKA 536.5	3547	01	MOLOKAI		121 06	157 01	70						C
KEONELELE PENS 551	4394	01	MOLOKAI		121 12	157 12	560		16				2
KUALAPUU 534	4778	01	MOLOKAI		121 09	157 02	825						C
MAUNALO 511	6190	01	MOLOKAI		121 08	157 13	1070						C
MOLOKAI AP 524	6534	01	MOLOKAI		121 09	157 06	450	28	30				1 2 3
PUU O HUKU RANCH 542.1	8549	01	MOLOKAI		121 09	156 44	700						C
WAIKOLU 540	9404	01	MOLOKAI		121 08	156 55	3550		15				2
ISLAND OF LANAI													
KANEPUU 690	3130	01	LANAI		120 52	157 00	1650		25				2
KAMALAPAA HARBOR 658	3461	01	LANAI		120 47	157 00	30		17				2
LANAI AIRPORT 656	5275	01	LANAI		120 48	156 57	1300	5	5				1 2 3
LANAI CITY 677	5286	01	LANAI		120 50	156 55	1620	46	50				1 2 3 C
LANAIHALE 684	5301	01	LANAI		120 49	156 53	3370		17				2
MAHANA 694	5704	01	LANAI		120 52	156 55	1430		25				2
MALAEUA 676	6012	01	LANAI		120 46	156 55	1150		17				2
WAIKAEKUA 685	9021	01	LANAI		120 47	156 52	2000		25				2
ISLAND OF MAUI													
AUKAHI 752	0175	02	HANA		220 37	156 20	2060		17				2
FIELD 46 474	0541	04	LANAI		420 59	156 38	1050				FEB		C
HAELAAU 477	0790	04	LANAI		420 57	156 36	2980		1				2
HALEAKALA E S 434	0995	01	MAKAWAO		120 51	156 18	2100		58				2
HALEAKALA RANCH 432	0999	01	MAKAWAO		120 50	156 19	1850		88				2
HALEAKALA R S 378	1004	02	MAKAWAO		220 46	156 15	7030	34	41				1 2 3
HALITIMALE 423	1075	01	MAKAWAO		120 52	156 21	1070		16				2
HAMAKUPOKO 485	1086	01	MAKAWAO		120 55	156 21	320		96				2
HANA 354	1122	01	HANA		120 45	155 59	120						C
HANA AIRPORT 355	1125	01	HANA		120 48	156 01	61	29	29				1 2 3
HOLUA CABIN 259.5	1552	02	MAKAWAO		220 45	156 13	6930		16				2
HONOKOHU 480	1832	04	LANAI		420 58	156 36	870		15				2
HONOKOHU 493	1887	04	LANAI		421 00	156 39	135		52				2
HONOLUA FIELD 49 494	1914	04	LANAI		421 01	156 38	125		1				2
HONOMANU GULCH 341	1935	01	MAKAWAO		120 47	156 14	6280		44				2
IAO NEEDLE 387.2	2208	03	WAILUKU		320 53	156 33	1080						C
KAAHAPALI AP 457.1	2307	04	LANAI		420 56	156 42		12	12				1 2 3
KAHAKULOA MAUKA 482.3	2453	03	WAILUKU		420 59	156 33	650				FEB		C

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ISLAND OF MAUI													
KAHOMA INTAKE 274	A	2552	04	LAHAINA	420 54	156 38	2000		69				2
KAHULUI WSO 398 AP	R	2572	03	WAILUKU	320 54	156 26	48	24	24				1 2 3 C
KAILIILI 436	A	2630	01	MAKAWAO	120 51	156 16	2520		55				2
KAILUA 446		2679	01	MAKAWAO	120 54	156 13	700	67	76				1 2 3
KAUAULA INTAKE 375	A	3433	04	LAHAINA	420 53	156 38	1585		61				2
KAUPO RANCH HOUSE 259		3576	02	HANA	220 39	156 08	1020						C
KEAHUA 410		3910	03	MAKAWAO	320 52	156 23	480		61				2
KEANAE 346	A	4091	01	HANA	120 50	156 10	980		75				2
KEAWAKAPU BEACH 260.2		4193	02	MAKAWAO	220 42	156 27	20		16				1 2 3 C
KIHEI 311		4489	03	WAILUKU	320 47	156 27	90		57				2
KIPAHULU 258		4634	01	HANA	120 39	156 04	260		79				2
KUKUI 300	A	4887	04	LAHAINA	420 54	156 35	5788		1				2
KULA SANATORIUM 267		5006	02	MAKAWAO	220 42	156 22	3004	42	62				1 2 3
LAHAINA 361		5177	04	LAHAINA	420 53	156 41	45	35	66				1 2 3 C
LAUNIUPOKO INTAKE 376	A	5404	04	LAHAINA	420 51	156 37	1280		66				2
LAUNIUPOKO VILLAGE 372A		5408	04	LAHAINA	420 51	156 39	220		53				2
LUPI UPPER 442	A	5665	01	MAKAWAO	120 53	156 15	1240		82				2
MAHINAHINA 466	A	5715	04	LAHAINA	420 57	156 40	715		66				2
MOKUPEA 475	A	6521	04	LAHAINA	420 59	156 37	1290		1				2
NAKALELE FIELD 60 497	A	6645	04	LAHAINA	421 02	156 36	340		42				2
GLINDA 332	A	7040	01	MAKAWAO	120 48	156 17	4127		62				2
GLOWALU 296.1		7059	04	LAHAINA	420 49	156 37	20		29				2
PAAKEA 350		7194	01	HANA	120 49	156 07	1260		75				C
PAIA 406		7566	01	WAILUKU	120 55	156 23	170		75				2
PANILEIHULU 259.2	A	7674	02	HANA	220 41	156 08	3570		16				2
PEAHI 498.6		7952	01	MAUI	120 54	156 17	830						C
POHAKA BRIDGE 307.2	A	8060	03	WAILUKU	320 49	156 31	167		26				2
POLIPOLI SPRINGS 267.2A		8070	02	MAKAWAO	220 41	156 20	6150		16				2
PUHOKAHOA 2 343	A	8336	01	HANA	120 50	156 13	2980		51				2
PUUNENE 396		8543	03	WAILUKU	320 53	156 27	60		75				2
PUU PAKI 352	A	8553	01	HANA	120 46	156 03	2160						S
SPRECKELSVILLE 400.2		8688	03	WAILUKU	320 54	156 25	85		72				2
TWIN GATES 261.3	A	8742	03	MAKAWAO	320 46	156 23	1310		16				2
UH AGRI RES CNTP 324.5		8743	02	MAUI	220 46	156 20	3050	1	2				1 2 3 C
UKULELE 333	A	8744	01	MAKAWAO	120 48	156 15	5230		74				2
UKUMEHAME 301	A	8750	04	LAHAINA	420 48	156 35	75		50				2
ULUPALAKUA RANCH 250		8760	02	MAKAWAO	220 39	156 24	1900		25				C
WAHIKULI 364	A	8955	04	LAHAINA	420 54	156 40	580		59				2
WAIEMU CAMP 484	A	9275	03	WAILUKU	320 55	156 31	320		70				2
WAIHEE VALLEY 482	A	9315	04	WAILUKU	420 57	156 32	300		30		OCT		2
WAIKAMOI 449	A	9332	01	HANA	120 52	156 12	1200		73				2
WAIKAMOI DAM 336		9335	01	MAKAWAO	120 49	156 14	4320						C
WAIKAPU 390	A	9376	03	WAILUKU	320 51	156 31	370		85				2
WAILUA IKI 348	A	9460	01	HANA	120 48	156 09	2630						S
WAILUKU 386	A	9484	03	WAILUKU	320 54	156 30	180		78				2
WAIOPAI RANCH 256	A	9765	02	HANA	220 38	156 12	220		81				2
ISLAND OF HAWAII													
AHUA UMI 75	A	0040	05	N KONA	519 38	155 47	5220		56				2
CITY OF REFUGE 27.4		0344	04	S KONA	419 25	155 55	15	9	9				2
HAUNA 214		0840	01	HAMAKUA	120 06	155 28	461		90				2
HAKALAU 142		0905	02	S HILO	219 54	155 08	105		88				2
HALEMAUMAU 52	A	1033	03	KAU	319 24	155 17	3648		47				2
HALEPOHAKU 111	A	1065	02	HAMAKUA	219 46	155 28	9220		40				2
HA'S FARM 85.3		1270	02	HAWAII	219 40	155 06	580		2				2
HAWAII VOLCNS NP HQ 54		1303	02	KAU	219 26	155 16	3971	66	67				1 2 3 C
HAWI 168	A	1339	01	N KOHALA	120 14	155 50	580		80				C
HILO COUNTRY CLUB 86.6		1487	02	HAWAII	219 41	155 10	1600						C
HILO WSO AP 87	R	1492	02	S HILO	219 43	155 04	36	33	37				1 2 3 C
HOLUALOA 70		1557	04	N KONA	419 38	155 55	3220		51				2
HOLUALOA BEACH 68	A	1562	04	N KONA	419 37	155 59	14		59				2
HONAUANA 27		1665	04	S KONA	419 25	155 53	940		41				2
HONOHINA 137		1701	02	N HILO	219 56	155 09	300		86				2
HONOPU MAUKA 138		1960	02	S HILO	219 51	155 09	1100						C
HONUAULA 71	A	2047	04	N KONA	419 40	155 53	6250		50				2
HUALALAI 72	A	2151	04	N KONA	419 42	155 52	8190		51				2
HUEHUE 92.1	A	2156	04	N KONA	419 45	155 59	1060		76				2
KAAALA IKI 12	A	2249	03	KAU	319 08	155 34	1340		41				2
KAAWALOA 29	A	2327	04	SOUTH KONA	419 30	155 55	1340		38				2
KAHIAWAI MAUKA 3.8		2512	03	KAU	319 08	155 46	4120						C
KAHUA RCH HGTPS 176.3		2600	01	HAWAII	120 08	155 48	3240						C
KAINALIU 73.2		2751	04	N KONA	419 32	155 56	1500	44	49				1 2 3
KALAOA 69.22		2887	04	HAWAII	419 44	155 59	2000		4				2
KALAPANA 1 67.8		2894	02	S HILO	219 20	155 02	10		13				2
KAMAHA 2 5	A	3048	03	KAU	319 02	155 40	1375		25				2
KAMUELA 192.2		3077	01	S KOHALA	120 01	155 40	2670	43	89				1 2 3
KAPAPALA RANCH 36	A	3300	03	KAU	319 17	155 27	2140		93				2
KAPOHO BEACH 93.11		3368	02	HAWAII	119 30	154 49	10	3	4				1 2 3

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ISLAND OF HAWAII													
KAPOHO LANDING 93.5 A	3369	02	PUNA		219 30	154 52	290		17				2
KALAINUI LOWER 193 A	3770	01	HAMAKUA		120 05	155 39	1080		69				2
KEAAU 92	3872	02	PUNA		219 38	155 02	285		17				2
KEAIIWA CAMP 22.1	3925	03	KAU		319 14	155 29	1700						
KEALAKEUA 26.2	3977	04	S KONA		419 30	155 55	1450						
KEALAKEUA 3 29.11	3985	04	S KONA		419 31	155 55	1530				MAY	APR	
KFANAKOLU CAMP 124.2	4098	02	HAMAKUA		219 55	155 21	5280						
KIOLAKAA A & F 6 A	4625	03	KAU		319 04	155 38	1925		50				2
KIPA 89.2 A	4632	02	S HILO		219 44	155 09	1490		27				2
KOHALA MISSION 175.1	4680	01	N KOHALA		120 14	155 48	537		89				2
KOIAWE LOWER 196 A	4685	01	HAMAKUA		120 05	155 38	720		69				2
KONA (HAILUA) 68.3 A	4764	04	N KONA		419 39	156 00	30	30	30				1 2 3 C
KONA VILLAGE 93.8	4765	04	N KONA		419 50	155 59	20		12				2
KUKAIAU 272	4815	01	HAMAKUA		120 02	155 21	840		84				2
KUKUIHAELE HIC 199	4928	01	HAMAKUA		120 07	155 35	980		70				2
KUKUIHAELE MILL 206 A	4938	01	HAMAKUA		120 08	155 34	300		87				2
KULANI CAMP 79	5011	02	S HILO		219 33	155 18	5170	20	31				1 2 3
KULANI MAUKA 76 A	5018	05	N HILO		519 35	155 27	8300		28				2
KULANI SCHOOL SITE 78 A	5021	02	S HILO		219 35	155 20	5735		32				2
LALAMILLO FLD OFF 191.1	5260	01	S KOHALA		120 01	155 41	2615						C
LANIHAI 68.2	5330	04	N KONA		419 40	155 58	1530		37				2
LAVA TREE PARK 66.1	5460	02	PUNA		219 29	154 54	650						C
MAKAHALAU 103	5761	02	HAWAII		119 59	155 33	3820		8				2
MAUKA 2 A	6134	03	KAU		319 07	155 50	1760		50				2
MAUNA KEA OBS 111.2	6183	02	HAWAII		219 49	155 28	13770	1	8				1 2 3
MAUNA LOA SLOPE OBS	6198	05	HAMAKUA		519 32	155 35	11150	23	24				1 2 3
MIDDLE HOLUALOA 68.1 A	6268	04	N KONA		419 37	155 58	500		37				2
MIDDLE PEN 147.1 A	6270	01	N KOHALA		120 06	155 50	1380		15				2
MOAULA 18	6407	03	KAU		319 11	155 30	600		60				2
MOUNTAIN VIEW 91	6552	02	PUNA		219 33	155 07	1530	42	79				1 2 3 C
NAALEHU 14 A	6588	03	KAU		319 04	155 35	800	25	90				1 2 3
NAPOOPOO 28	6697	04	S KONA		419 28	155 55	350		39				2
OOKALA 223	7131	02	N HILO		220 01	155 17	430	59	89				1 2 3 C
OPIHIHALE 2 24.1	7166	04	S KONA		419 16	155 53	1270	21	22				1 2 3
ORCHID LAND EST 91.6 A	7185	02	PUNA		219 34	155 00	445		16				2
PAAUHAU 217	7204	01	HAMAKUA		120 05	155 26	415		89				C
PAAUHAU 221	7312	01	HAMAKUA		120 03	155 22	800		76				2
PAHALA 21 A	7421	03	KAU		319 12	155 29	870		87				2
PAHOA 65	7457	02	PUNA		219 30	154 57	670		69				2
PAKAO 37 A	7643	03	KAU		319 22	155 28	5000		50			APR	2
PAPAIKOU 144.1	7711	02	S HILO		219 47	155 06	260		80				2
PAPAIKOU MAUKA 140.1	7721	02	S HILO		219 47	155 08	1285		53				2
PIIHONUA 89 A	8051	02	S HILO		219 44	155 10	1730		54				2
POHAKULOA 107	8063	02	HAMAKUA		219 45	155 32	6511				OCT		C
POUKOHOLA HEIAU 98.1	8422	05	HAWAII		520 02	155 50	140	3	3				1 2 3
PUU LEHUA 73 A	8460	04	N KONA		419 34	155 49	4880		56				2
PUU WAAWAA 94.1	8555	05	N KONA		519 47	155 51	2520						C
SADDLE ROAD 1 64 A	8590	02	S HILO		219 42	155 12	2340		31			APR	2
SOUTH KONA 2.31	8650	03	HAWAII		319 06	155 45	2650	3	3				1 2 3
SOUTH POINT COPRAL 3 A	8675	03	KAU		318 57	155 41	500		31			APR	2
UPOLU POINT USCG 159.2	8830	01	N KOHALA		120 15	155 53	61	21	23				1 2 3
WAIKAE SCD 88.2	9025	02	S HILO		219 40	155 08	1050		27				2
WAIKALOA-BOIS CAS 95.8	9142	04	HAWAII		519 56	155 48	900		4				2
PACIFIC													
EAST OF 180TH MERIDIAN													
ATU'U	4060	03	TUTUILA		14 16S	170 41W	265		1			OCT	2
CANTON ISLAND	4101	02	PHOENIX IS		2 46N	171 43W	8	23	23				1 2 3
FAGA ALU RESERVOIR	4135	03	AMER SAMOA		14 18S	170 42W	820		20			DEC	2
FALCASO VILLAGE	4248	03	TAU'AMAN		14 14S	169 31W	16		10				2
JOHNSTON IS WSC AP	4320	01	LINE ISLANDS		16 44N	169 31W	10	23	23	17			1 2 3 4
LEONE	4397	03	TUTUILA		14 21S	170 47W	20	12	12			AUG	1 2 3
FRENCH FRIGATE SHOALS	4401	07			23 52N	166 17W	6	23	23				1 2 3
MIDWAY SAND ISLAND	4490	07			28 13N	177 21W	10	26	26				1 2 3
MALAELOA	4594	01	TUTUILA		14 20N	170 46W	139		1			OCT	2
PAGO PAGO WSO AP	4690	03	AMER SAMOA		14 20S	170 43W	10	13	13	1			1 2 3 4
WESTERN PACIFIC ISL, NORTH OF 12 N													
AGAT	4000	05	GUAM		13 23N	144 39E	10		1			JUL	2
ANDERSEN AFB GUAM	4025	03	MARIANNA IS		13 35N	144 55E	624	24	24				1 2 3
CLARK AFB LUZON	4100	06	PHILIPPINE I		15 11N	120 33E	475	25	25				1 2 3
DFEDDO	4151	05	GUAM		13 31N	144 51E	350		1			JUL	2
*GUAM NAS	4226	03	MARIANNA IS		13 29N	144 46E	254	22	22				1 2 3

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WESTERN PACIFIC ISL, NORTH OF 12 N														
GUAM WSO	R	4229	03	MARIANNA IS		13 33N144 50E		361	22	22	19			1 2 34
INARAJAN AG STN		4275	03	GUAM		13 16N144 45E		37		1		JUL		2
INARAJAN - NASA		4278	03	GUAM		13 18N144 44E		280	1	1		JUL		1 2 3
MANGILAO		4468	03	MARIANNA IS		13 27N144 49E		60		9				2
PITI		4670	03	GUAM		13 27N144 41E		10				JUL		C
ROTA		4800	03	MARIANNA IS		14 08N145 09E		47		18				2
SAIRAN LOPAN		4860	03	MARIANNA IS		15 08N145 42E		9	20	20				1 2 3
UMATAC		4885	03	GUAM		13 17N144 40E		190		1		JUL		2
WAKE ISLAND WSO AR	R	4901	01	WAKE ISLAND		19 17N166 39E		12	31	37				1 2 3
YIGO		4950	03	GUAM		13 32N144 53E		525		1		JUL		2
CAROLINE AND MARSHALL ISLANDS														
ANGUAR		4037	02	CAPOLINE IS		6 55N134 09E		15		23			JUN	2
ENEWETAK		4165	01	MARSHALL IS		11 21N162 21E		10	23	26				1 2 3
FALALOP 1 ULITHI ATOLL		4185	02	CAPOLINE IS		10 02N139 48E		6	23	23				1 2 3
KAPINGAMAPANGI ATOLL		4325	01	PONARE		1 05N154 48E		10	11	16				1 2 3
KOROR WSO	R	4351	02	CAPOLINE IS		7 20N134 29E		94	29	29				1 2 3
KWAJALEIN MISSILE RGN	R	4375	01	MARSHALL IS		8 44N167 44E		7	26	26				1 2 3
LELE I KOSRAE		4395	02	KOSRAE		5 20N163 02E		7	20	20				1 2 3
MAJURO WSO AP	R	4460	02	MARSHALL IS		7 05N171 23E		10	23	24				1 2 3
METALANIM		4482	02	PONARE		6 51N158 19E		30	12	12				1 2 3
MOKIL ATOLL		4490	02	PONARE		6 41N159 47E		27		17			SER	2
NGASANG-BABELTHUAP		4580	01	PALAU ISLAND		7 38N134 39E		10		19				2
RONARE WSO	R	4751	02	CAPOLINE IS		6 58N158 13E		123	28	28				1 2 3
SATAWAN ATOLL		4814	02	CAPOLINE IS		5 20N153 44E		9	10	10				1 2 3
TRUK MOFN I WSO AR	R	4851	02	CAPOLINE IS		7 28N151 51E		5	28	29				1 2 3
WOLEAI ATOLL		4911	01	CAPOLINE IS		7 23N143 55E		7	11	11				1 2 3
YAP WSO AP	R	4951	02	CAPOLINE IS		9 29N138 05E		44	30	30	1			1 2 34

See Reference Notes Following Station Index



Additional information regarding the climates of Hawaii and the Pacific Ocean Area may be obtained by writing to the National Climatic Center, Federal Building, Asheville, N.C. 28801, or to any National Weather Service Office near you. Additional precipitation data for Hawaii are contained in "HOURLY PRECIPITATION DATA HAWAII."

AVERAGES Division averages in the annual issue include delayed and corrected data and may differ slightly from values published in monthly issues.

DIMENSIONAL UNITS: Unless otherwise indicated, dimensional units used in this bulletin are: Temperature in °F, precipitation and evaporation in inches, and wind movement in miles.

EVAPORATION is measured in the standard Weather Service-type pan of 4-foot diameter unless otherwise noted below in the Evaporation and Wind table. Max and Min values in the Evaporation and Wind table are monthly averages of daily extremes of temperature of water in pan as recorded during 24 hours ending at time of observation. Wind is the total wind movement in miles over the evaporation pan as determined by a continuous anemometer recorder located 6-8 inches above the pan.

NORMALS for all stations are climatological normals based on the period 1941-1970. "DEP" in Table 4 refers to departures from long-term means based on periods varying from 10 to 29 years which are used in place of normals.

STATION NAMES Hawaii state key numbers are included following station names in the several tables.

LATE REPORTS AND CORRECTIONS will be carried in the June and December issues of Climatological Data.

DAILY SOIL TEMPERATURE TABLES: Included are all soil temperature stations with any data published for the calendar year, whether or not opened or closed during the year. See the reference notes of the monthly issues for information on individual stations as to soil type, ground cover, and degree of slope.

IN THE DATA TABLES THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING:

- No record.
- + Also on earlier date (dates) or months.
- \* Amount included in following measurement.
- A The letter "A" shown following station name, (Table 2 and Station Index): Amounts carried in the monthly "Precipitation" column are for the period from last measurement of a preceding month through the last measurement of the current month. See Daily Precipitation Table of the monthly Climatological Data for the dates of measurement. Measurements made on the first of a month are credited to the last day of the preceding month.
- B Adjusted to a full month.
- E Amount is wholly or partially estimated.
- M One or more days record missing; if average value is entered, less than 10 days record is missing. See monthly Climatological Data for detailed daily record.
- R Amounts from recording gage.
- T Trace, an amount too small to measure.
- V Includes total for previous month. V in annual column means total is for a two-year period.

IN THE STATION INDEX THE SYMBOLS AND LETTERS WHEN USED INDICATE THE FOLLOWING:

- # Thermometers are generally exposed in a shelter located a few feet above sod covered ground; however, the reference indicates that the thermometers are exposed in a shelter located on the roof of a building.
- † DRAINAGE CODE: KAUAI: 1-NORTHERN 2-SOUTHEASTERN 3-SOUTHWESTERN OAHU: 1-WINDWARD KOOLAU 2-HONOLULU 3-SOUTH-CENTRAL 4-WESTERN 5-NORTH-CENTRAL MOLOKAI: 1-(NO INTRA-ISLAND DIVISIONS) LANAI: 1-(NO INTRA-ISLAND DIVISIONS) MAUI: 1-NORTHEASTERN 2-SOUTHERN 3-CENTRAL 4-WESTERN HAWAII: 1-NORTHERN 2-EASTERN 3-SOUTHERN 4-WESTERN 5-CENTRAL
- C In Special Column of Station Index indicates Recording Rain Gage Station. Hourly precipitation values are processed for special purposes, and are published later in the "Hourly Precipitation Data" bulletin. If daily amounts are published in "Climatological Data" bulletin they are from a separate non-recording gage, except where indicated by reference 'R'. Such amounts may differ from amounts published from the recording gage in the "Hourly Precipitation Data" bulletin.
- S Storage precipitation station. Precipitation measurements, made at irregular intervals, will be published in the annual issue of this publication.

Years of record as shown in the Station Index are approximate since gaps in the records may not have been considered in arriving at the totals shown.

The four-digit identification numbers in the Index are assigned on an island basis. There will be no duplication of numbers within an island.

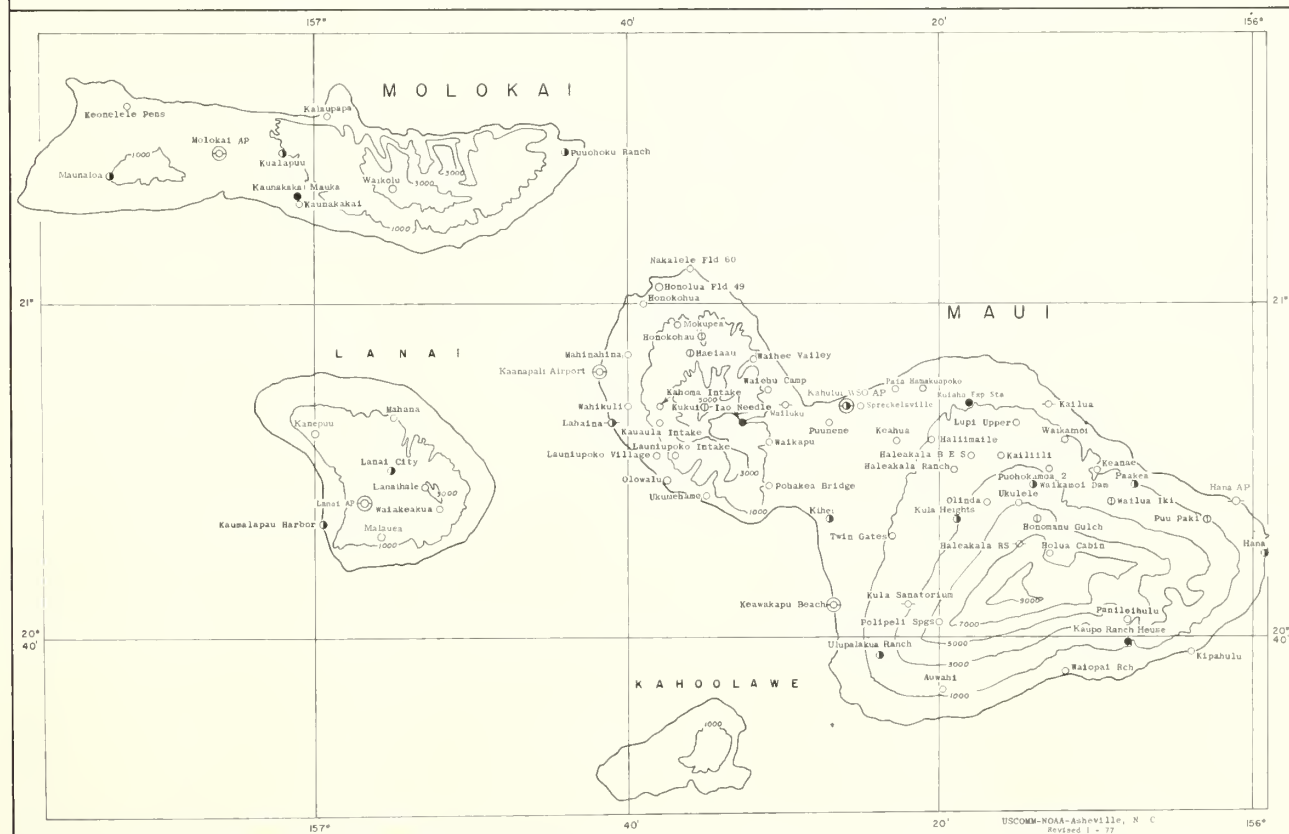
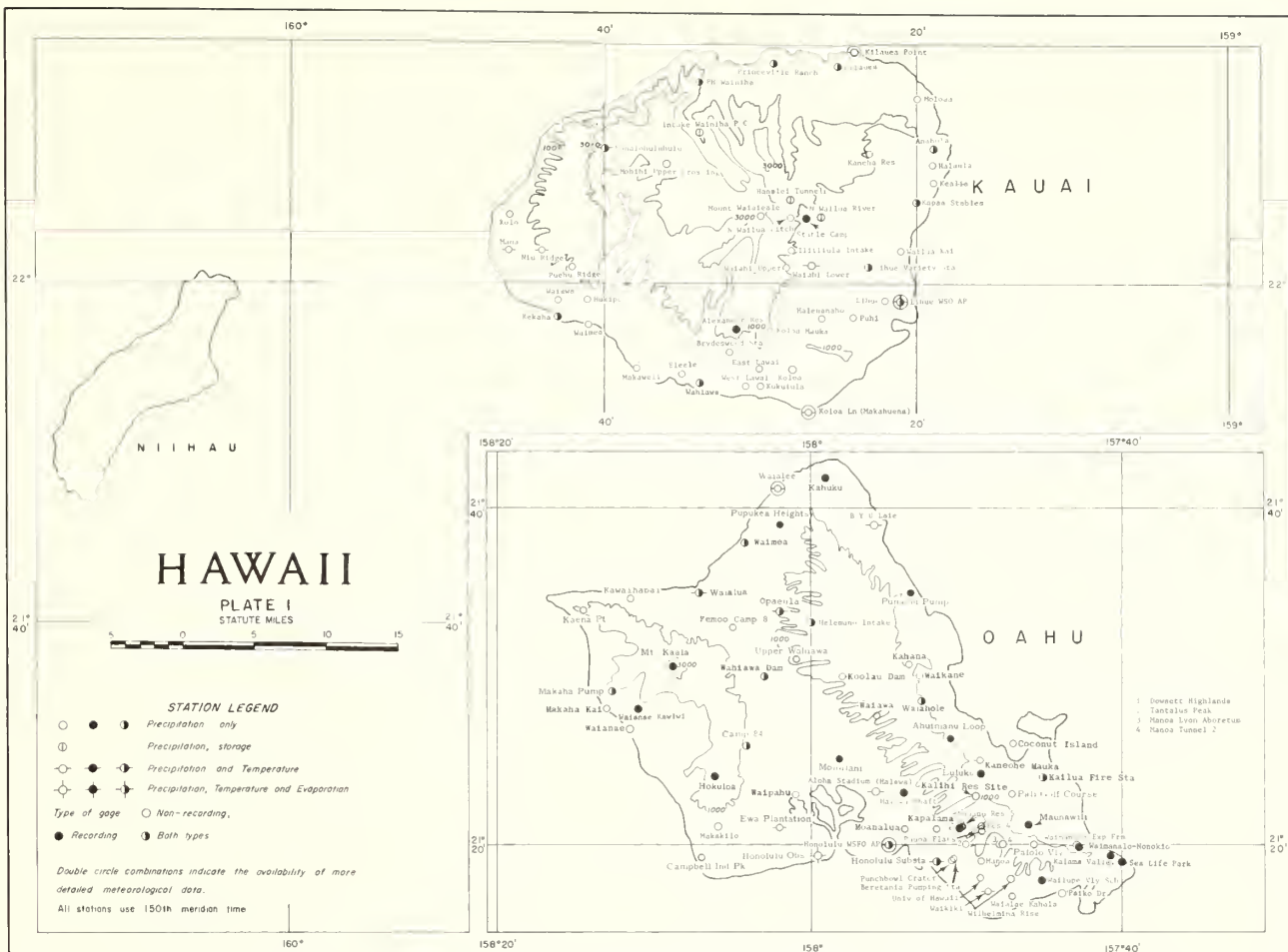
The Pacific includes stations in the Trust Territory of the Pacific Islands, Territory of Guam, American Samoa, and other scattered islands and atolls.

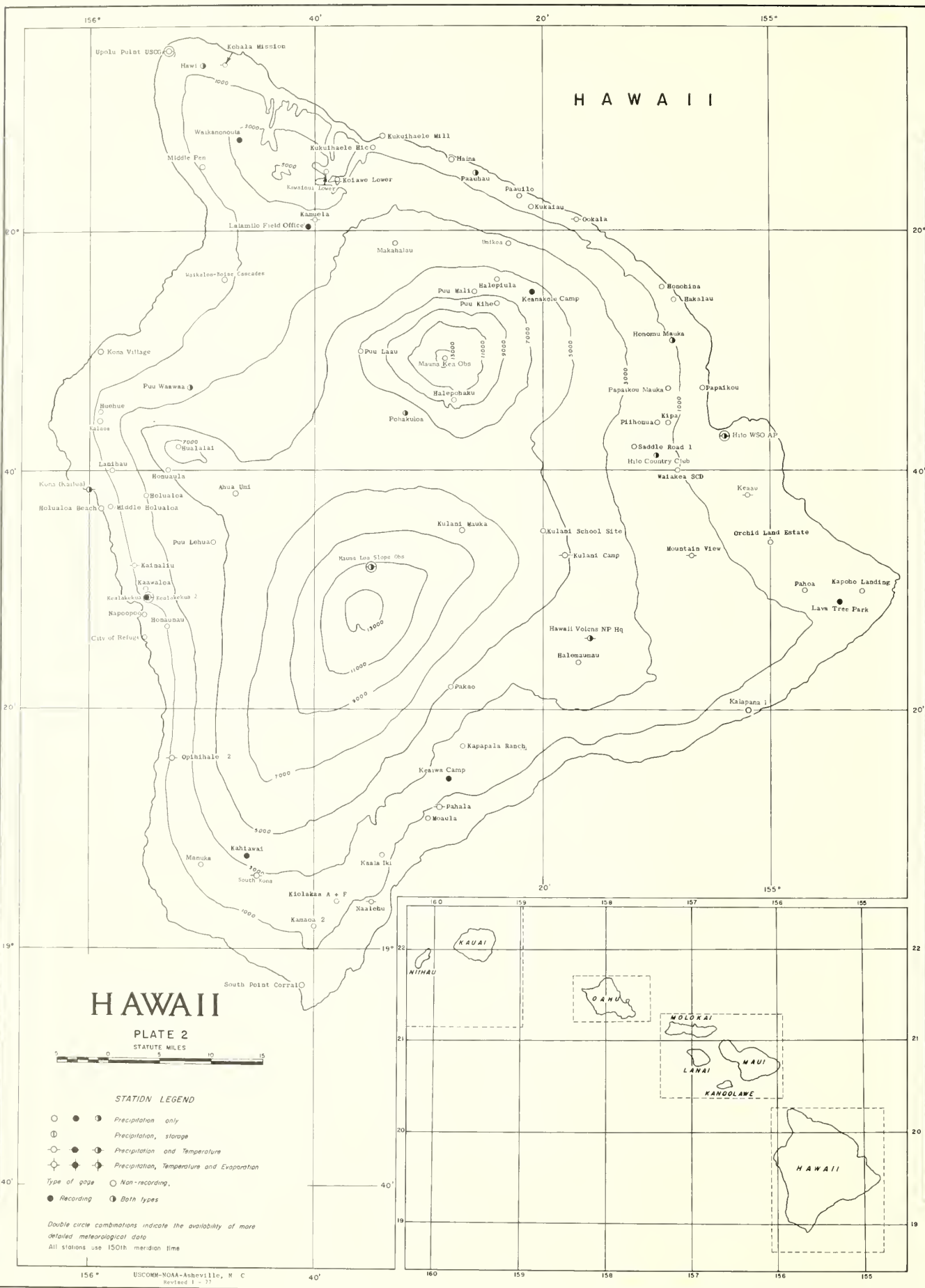
Information concerning the history of changes in locations, elevations, exposure, etc., of substations through 1957 may be found in the publication "Substation History" for this State, price 40 cents. Similar information for regular National Weather Service Offices may be found in the latest annual issue of Local Climatological Data, price 30 cents. Note minimum charge and ordering instructions below.

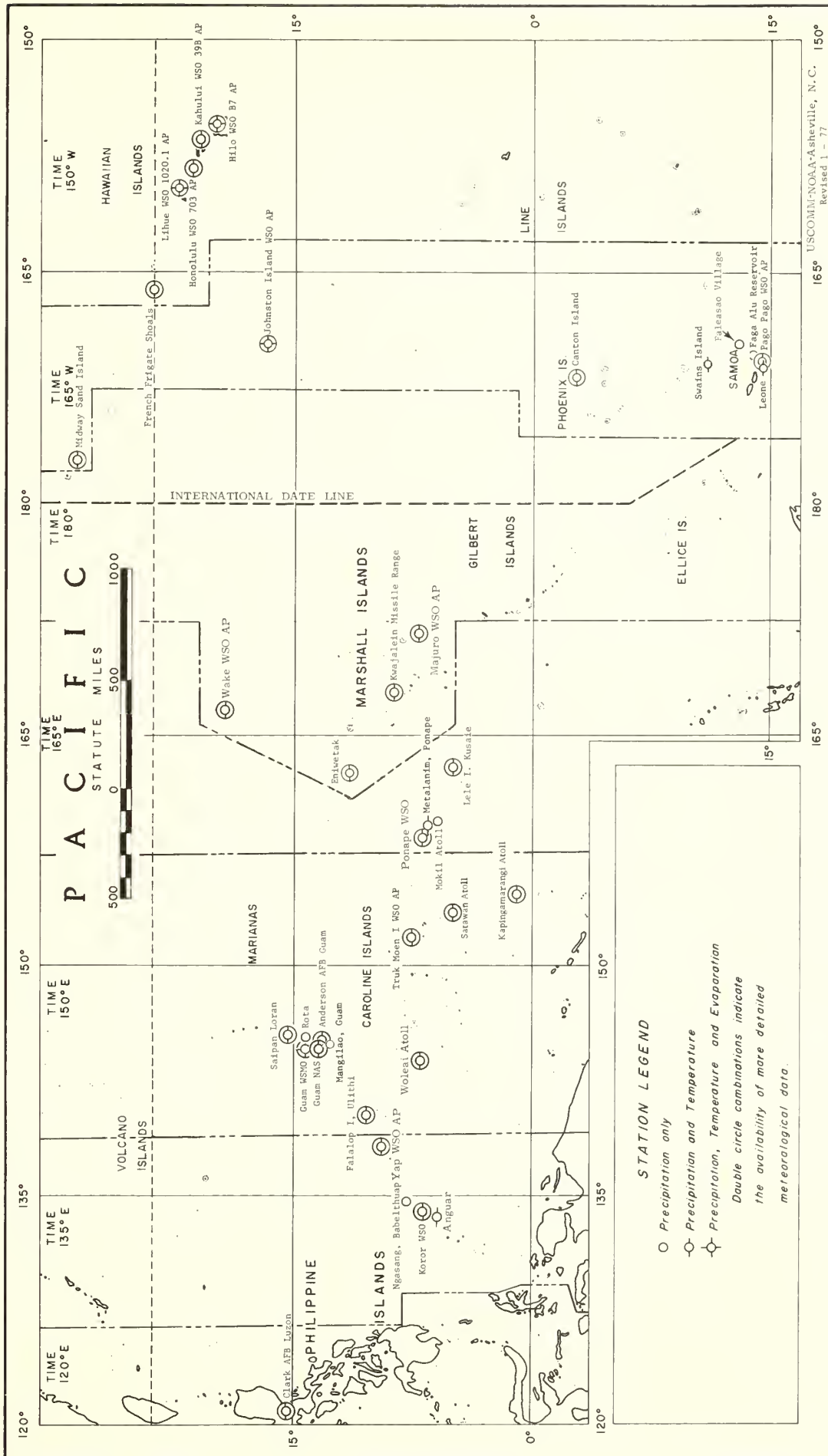
Subscription Price: \$5.85 per year for each section including annual summary; \$13.00 foreign; 45¢ single copy; \$1.00 foreign; 45¢ annual summary, \$1.00 foreign. There is a minimum charge of \$3.00 for each order of shelf-stocked issues of publications. Make checks payable to Department of Commerce, NOAA; send payments and orders to: National Climatic Center, Federal Building, Asheville, NC 28801. ATTN: Publications

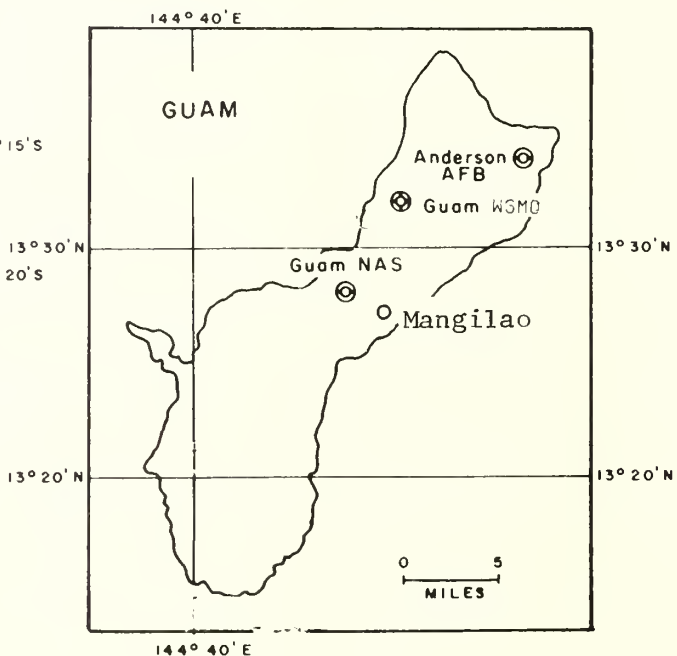
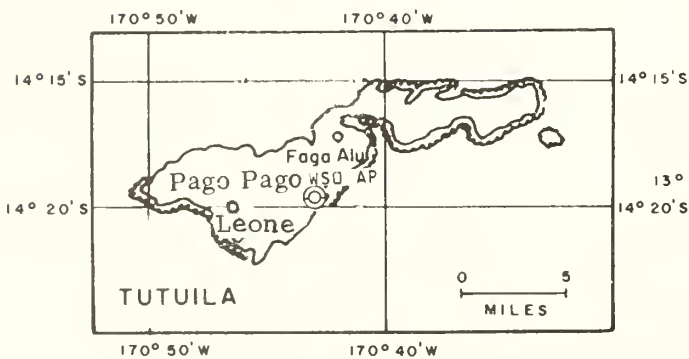
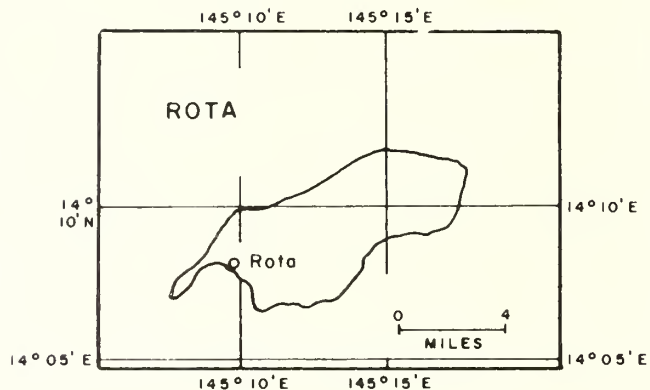
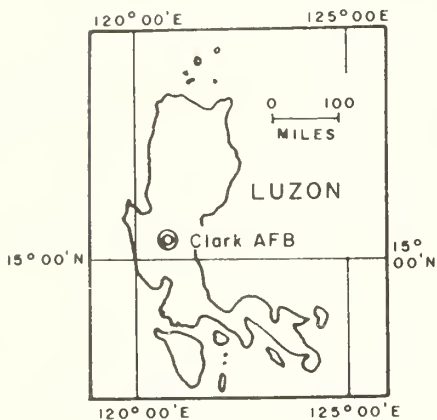
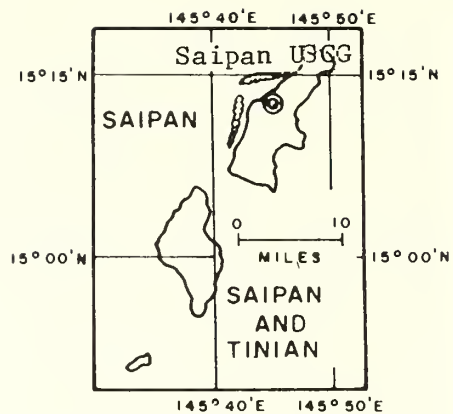
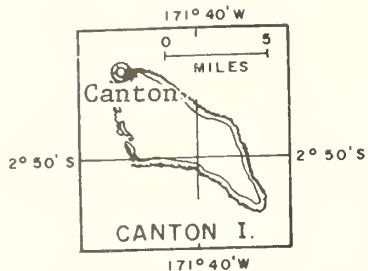
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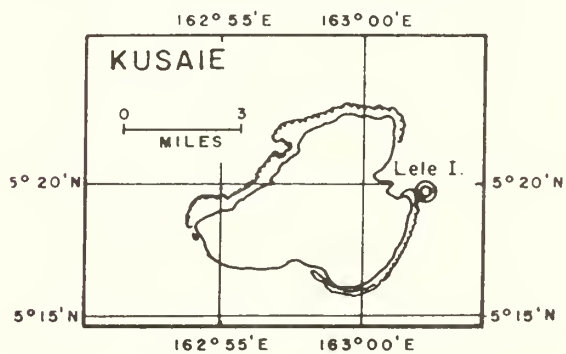
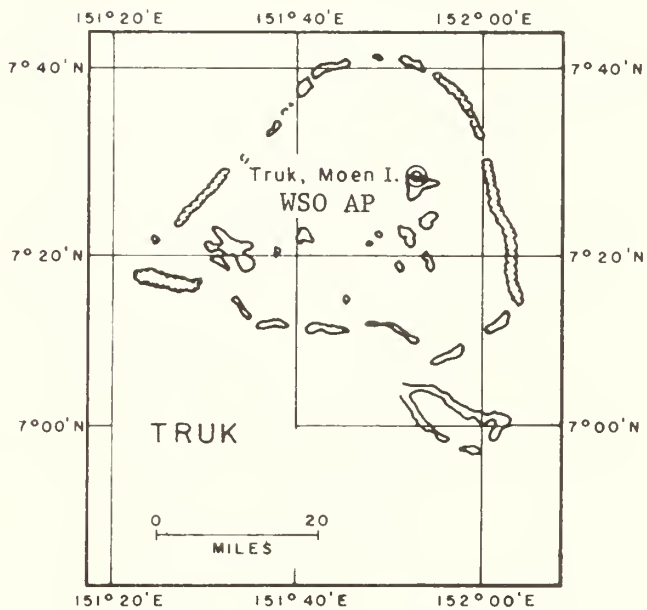
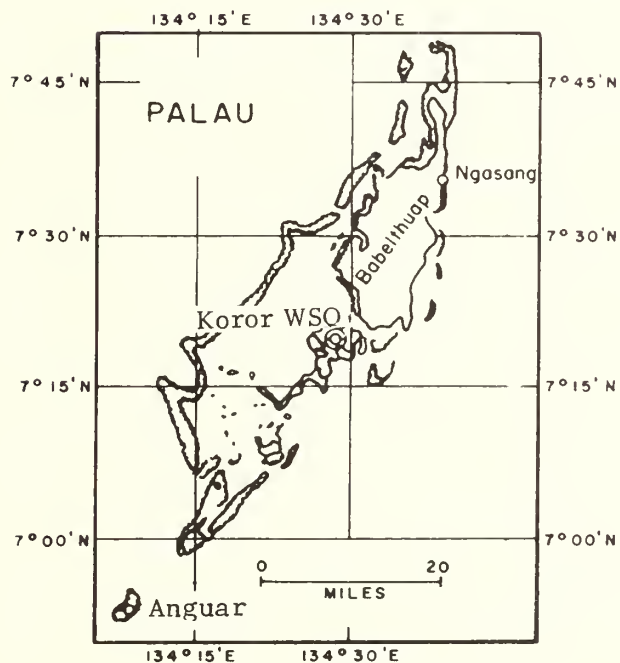
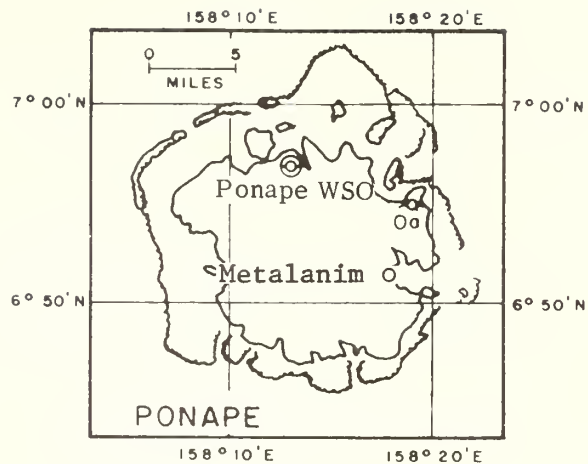
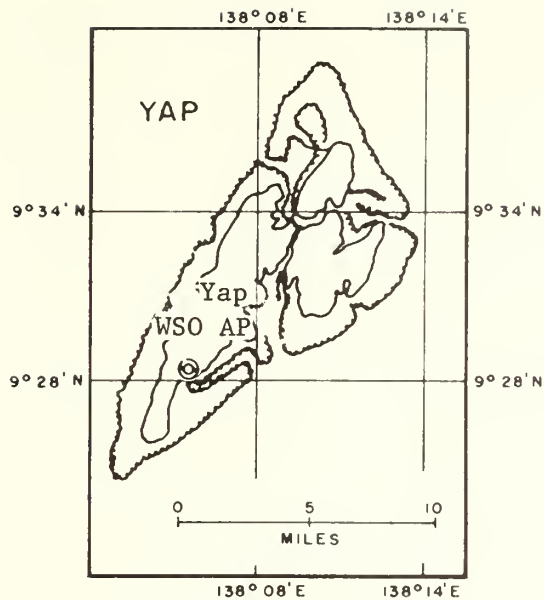






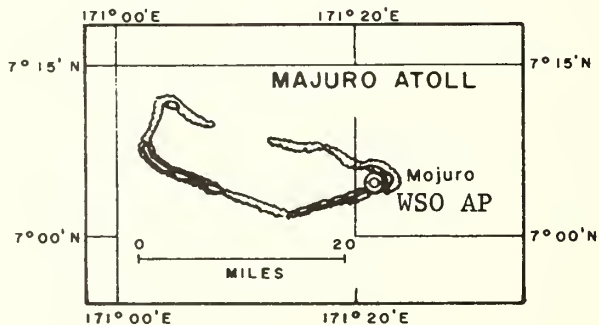
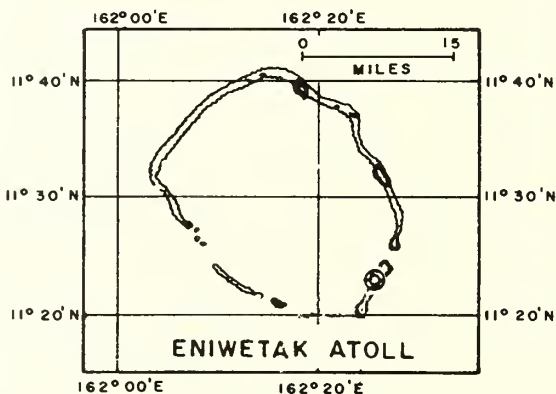
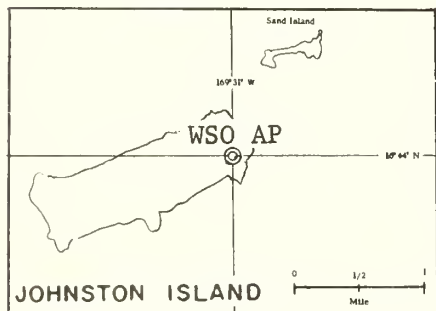
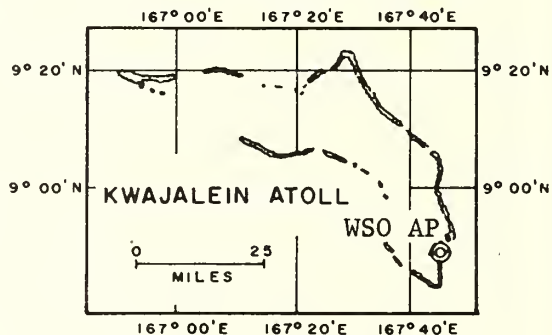
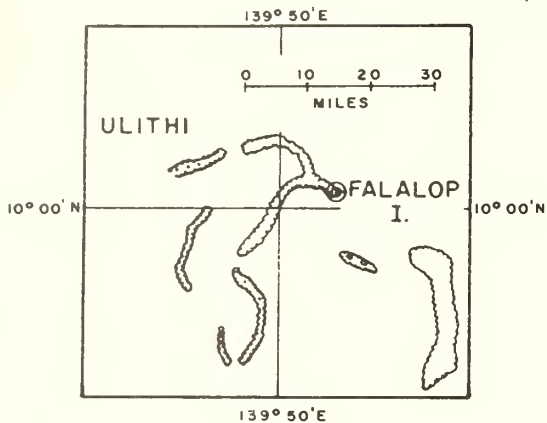
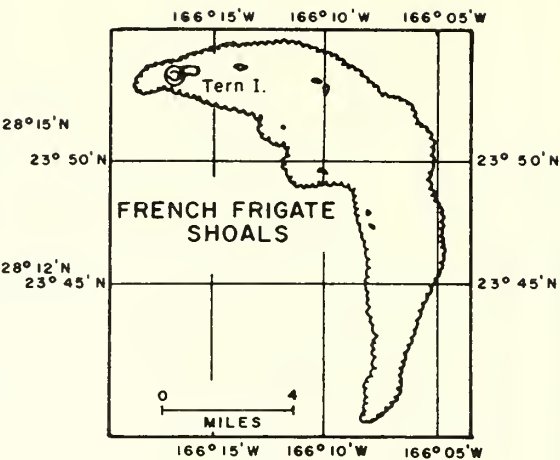
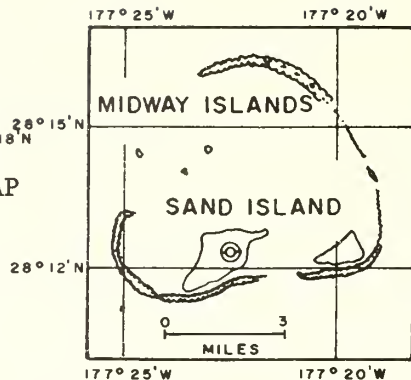
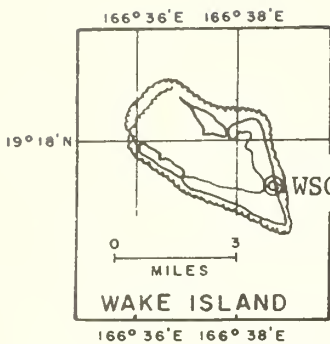


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— Reef







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